

Course Outline

Code: SEC702

Title: Cyber Intelligence

School: Science & Engineering
Teaching Session: Semester 1
Year: 2020
Course Coordinator: Dennis Desmond
Course Moderator: Associate Professor Clive Harfield

Please go to the USC website 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

In this online course, you will learn about the conduct of open source intelligence collection, and the measures used by criminals to conceal and obfuscate their online identities and activities. You will learn about useful software applications and tools, identity exploitation and techniques, online cyber tradecraft, markets and currencies: all integral skills in the development of a professional cyber investigator..

1.2 Field trips, WIL placements or activities required by professional accreditation

Activity	Details
Nil	Not Applicable

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?

Specific Learning Outcomes On successful completion of this course, you should be able to:	Assessment tasks You will be assessed on the learning outcomes in task/s:	Graduate Qualities or Professional Standards mapping Completing these tasks successfully will contribute to:
Plan a strategy to collect OSINT while maintaining operational security	3	Empowered
Apply open source collection techniques used by cyber investigators	1,2, 3	Empowered
Develop online tradecraft skills to conceal intent and obfuscate your identity to facilitate online collection of investigatory information.	1, 2	Empowered
Recognise and mitigate vulnerabilities in Identity data and Personal Electronic Devices (PEDs).	1	Empowered
Perform identify resolution to authenticate and differentiate online identities and analyse findings.	3	Creative and Critical Thinker
Detect illicit online behaviour	2	Knowledgeable
Communicate online investigatory findings and competencies	1, ,3	Engaged

5. Am I eligible to enrol in this course?

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

5.1 Enrolment restrictions

Enrolled in program Sc510 or SC704

5.2 Pre-requisites

Nil

5.3 Co-requisites

SEC701

5.4 Anti-requisites

Nil

5.5 Specific assumed prior knowledge and skills (where applicable)

Students will be assumed to understand how the Internet operates and its role in society. They will be expected to have a working knowledge of computer systems and networks

6. How am I going to be assessed?

6.1 Grading scale

Limited – Pass (PU), Fail (UF). All assessment tasks are required to be passed for successful completion of the course.

6.2 Details of early feedback on progress

Using marking rubrics, students will participate in continuous peer and self-assessment during tutorials

6.3 Assessment tasks

Task No.	Assessment Product	Individual or Group	Weighting %	What is the duration / length?	When should I submit?	Where should I submit it?
1	Artefact - Technical and Scientific, and Written Piece	Individual	PU/UF	2,000 Words equivalent	Week 4	Online Assignment Submission
2	Artefact - Technical and Scientific– Collection Planning	Individual	PU/UF	1,500 words equivalent	Week 7	Online Assignment Submission
3	Artefact - Technical and Scientific, and Written Piece	Group	PU/UF	3000 words equivalent	Week 14	Online Assignment Submission

Assessment 1: Artefact - Technical and Scientific, and Written Piece

Goal:	The goal of this task is to demonstrate basic knowledge of search engines, search techniques, and the implications of online identity information.
Product:	Artefact - Technical and Scientific, and Written Piece
Format:	This task will involve developing and mastering a number of basic online open source collection techniques while maintaining privacy and protecting personal data from being collected by adversaries. Students will provide a written assessment of their online presence using a template provided.
Criteria:	Demonstration of: <ul style="list-style-type: none"> • Application of open source collection techniques. • Development of tradecraft skills • Recognition and mitigation of vulnerabilities • Communication of competencies

Assessment Task 2: Collection Planning

Goal:	The goal of this task is to demonstrate your understanding in the development of an online collection plan and identifying the necessary resources and requirement to deliver an effective collection effort in support of organisation requirements.
Product:	Artefact - Technical and Scientific
Format:	You will develop an online collection plan using a prepared template to identify the required resources and techniques to target and collect against a specific topic provided by the instructor or of your choosing.
Criteria:	<ul style="list-style-type: none"> • Planning, resourcing and preparing a collection effort • Application of open source collection techniques • Development of tradecraft skills • understanding of how and where data can be located and collected

Assessment Task 3: **Open Source Collection Management**

Goal:	The goal of this task is to demonstrate mastery and understanding of open source intelligence collection while protecting personal data from adversarial collection.
Product:	Artefact - Technical and Scientific, and Written Piece
Format:	You will produce evidence of your ability to identify sources of information, the tools and techniques needed to collect and harvest the information, analyse the results and report the findings.
Criteria:	<ul style="list-style-type: none"> • Application of open source collection technique • Analysis of collection results • Preparation of data collection strategy • Communication of findings

7. Directed study hours

The directed study hours listed here are a portion of the workload for this course. 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. Directed study hours may vary by location. Student workload is calculated at 12.5 learning hours per one unit.

Location:	Directed study hours for location:
Online	This online course will take between 10-12 hours per week and may have a combination of: webinar, peer to peer collaboration, asynchronous online materials and work, and synchronous lecturer and peer to peer zoom meetings.

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

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

8.1 Prescribed text(s) or course reader

Please note that you need to have regular access to the resource(s) listed below as they are required:

Author	Year	Title	Publisher
Bazzell, Michael	2017	Personal Digital Security	Nil

8.2 Specific requirements

This is an online course and will require access to a personal computer, laptop or tablet and access to the Internet for at least 10 hours per week.

9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low.

It is your responsibility as a student 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. It is also your responsibility to familiarise yourself with the University's general health and safety principles by reviewing the [online Health Safety and Wellbeing training module 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 Blackboard, are electronically checked through SafeAssign. This software allows for text comparisons to be made between your submitted assessment item and all other work that SafeAssign has access to.

10.2 Assessment: Additional requirements

Limited Graded Course:

This course will be graded as Pass in a Limited Grade Course (PU) or Fail in a Limited Grade Course (UF) as per clause 4.1.3 and 4.1.4 of the Grades and Grade Point Average (GPA) - Institutional Operating Policy of the USC.

In a course eligible to use Limited Grades, all assessment items in that course are marked on a Pass/Fail basis and all assessment tasks are required to be passed for a student to successfully complete the course. Supplementary assessment is not available in courses using Limited Grades.

10.3 Assessment: Submission penalties

You must contact your Course Coordinator and provide the required documentation if you require an extension or alternate assessment.

10.4 Study help

In the first instance, you should contact your tutor, then the Course Coordinator. Additional assistance is provided to all students through Academic Skills Advisers. To book an appointment or find a drop-in session go to [Student Hub](#).

Contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au

10.5 Wellbeing Services

Student Wellbeing Support Staff are available to assist on a wide range of personal, academic, social and psychological matters to foster positive mental health and wellbeing for your success. Student Wellbeing is comprised of professionally qualified staff in counselling, health and disability Services.

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, mental health issue, learning disorder, injury or illness, or you are a primary carer for someone with a disability, [AccessAbility Services](#) can provide assistance, advocacy and reasonable academic adjustments.

To book an appointment with either service go to [Student Hub](#), email studentwellbeing@usc.edu.au or accessability@usc.edu.au or call 07 5430 1226

10.6 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
- Administration of Central Examinations
- Deferred Examinations
- Student Academic Misconduct
- Students with a Disability

Visit the USC website:

<http://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.7 General Enquiries

In person:

- **USC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **USC Moreton Bay** – Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **USC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **USC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **USC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **USC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au