

SEC603 Introduction to Device & Network Security

School: School of Science, Technology and Engineering

2025 | Trimester 1

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.

Please go to usc.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 professional competency course introduces you to fundamental competencies and skills to effectively secure computer devices and networks. You will specifically develop and test your competency across device and network security vulnerabilities, behaviours and restrictions. You will also develop an understanding of ethical hacking and vulnerability/penetration testing. You will work online independently and in teams through problem based and case study activities and you will be able to diagnose and secure network devices.

1.2. How will this course be delivered?

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

1.3. Course Topics

- Introduction to Cyber Security
- Cyber Security Roles and Frameworks
- Introduction to Threats, Vulnerabilities, Controls and Cryptography
- Incident Response
- Digital Forensics
- Network Protocols and Services
- Protecting the network and network attacks
- Principles of Network Security and Ethical Hacking
- Windows
- Linux
- Report Writing

2. What level is this course?

600 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 Explain device and network fundamental concepts.	Knowledgeable
2 Diagnose data points and device/network behaviours that reveal vulnerabilities in the computer network.	Empowered
3 Evaluate the role of data access restrictions, white-listing, administrative privileges, and related controls from a multi-actor perspective in an organisational context.	Creative and critical thinker
4 Communicate research and findings in systematic ways to specialist and non-specialist audiences.	Engaged

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 and Enrolled in Program SC509, SC517, SC705 or BU708

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

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

Students 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

Standard Grading (GRD)

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

6.2. Details of early feedback on progress

Feedback will be given to students from activities conducted in the weekly tutorials

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	Examination - not Centrally Scheduled	Individual	10%	1 hour	Week 4	Online Test (Quiz)
All	2	Written Piece	Individual	40%	1000 words	Refer to Format	Online Assignment Submission with plagiarism check
All	3	Report	Individual	50%	1500 words	Week 12	Online Assignment Submission with plagiarism check

All - Assessment Task 1: Security Artefact Development

GOAL:	The goal of this task is to demonstrate your understanding of foundational level knowledge of security, compliance, and identity concepts and related cloud-based solutions.										
PRODUCT:	Examination - not Centrally Scheduled										
FORMAT:	Individual 1 hour online exam. More details will be provided on Canvas.										
CRITERIA:	<table border="1"> <thead> <tr> <th>No.</th> <th></th> <th>Learning Outcome assessed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Describe the concepts of security, compliance, and identity.</td> <td>1</td> </tr> <tr> <td>2</td> <td>Describe the capabilities of solutions including identity and access management, security and compliance.</td> <td>2 3</td> </tr> </tbody> </table>	No.		Learning Outcome assessed	1	Describe the concepts of security, compliance, and identity.	1	2	Describe the capabilities of solutions including identity and access management, security and compliance.	2 3	
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GENERIC SKILLS:											

All - Assessment Task 2: Connecting theory and practice

GOAL:	The goal of this task is to apply your understanding of the weekly learning material to industry-based situations and to practice configurations and professional report writing, both skills fundamental to the work of industry professionals.													
PRODUCT:	Written Piece													
FORMAT:	3 Mini Tasks in 3 weeks (Week 3,5 and 7). Specific mini-task information will be released a minimum of one (1) week prior to each deadline. Mini tasks may include applying understandings of OS utilities, practical exercises and report writing in response to case studies.													
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GENERIC SKILLS:														

All - Assessment Task 3: Policy and Governance Report

GOAL:	The goal for this task is to apply your understanding of governance to review a fictional company's Information Technology policy and make recommendations to ensure that it represents industry best practice.													
PRODUCT:	Report													
FORMAT:	You will compile your recommendations in a written report and provide justification using relevant governance documentation. Your recommendations should be formatted as a written report and saved as a Word document. More details will be provided on Canvas.													
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4 Identify key messages for technical and non-technical audiences	4													
5 Communicate using report writing	4													
GENERIC SKILLS:														

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

Please note that you need to have regular access to the resource(s) listed below. Resources may be required or recommended.

REQUIRED?	AUTHOR	YEAR	TITLE	EDITION	PUBLISHER
Recommended	Charles P. Pfleeger, Shari Lawrence Pfleeger, Jonathan Margulies	2015	Security in Computing	5th Ed	Pearson College Division

8.2. Specific requirements

Access to a computer and the internet for activities during the 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 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. SafeUniSC

UniSC is committed to a culture of respect and providing a safe and supportive environment for all members of our community. For immediate assistance on campus contact SafeUniSC by phone: [07 5430 1168](tel:0754301168) or using the [SafeZone](#) app. For general enquires contact the SafeUniSC team by phone [07 5456 3864](tel:0754563864) or email safe@usc.edu.au.

The SafeUniSC Specialist Service is a Student Wellbeing service that provides free and confidential support to students who may have experienced or observed behaviour that could cause fear, offence or trauma. To contact the service call [07 5430 1226](tel:0754301226) or email studentwellbeing@usc.edu.au.

10.5. Study help

For help with course-specific advice, for example what information to include in your assessment, you should first contact your tutor, then your course coordinator, if needed.

If you require additional assistance, the Learning Advisers are trained professionals who are ready to help you develop a wide range of academic skills. Visit the [Learning Advisers](#) web page for more information, or contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au.

10.6. Wellbeing Services

Student Wellbeing provide free and confidential counselling on a wide range of personal, academic, social and psychological matters, to foster positive mental health and wellbeing for your academic success.

To book a confidential appointment go to [Student Hub](#), email studentwellbeing@usc.edu.au or call 07 5430 1226.

10.7. AccessAbility Services

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, learning disorder mental health issue, injury or illness, or you are a primary carer for someone with a disability or who is considered frail and aged, [AccessAbility Services](#) can provide access to appropriate reasonable adjustments and practical advice about the support and facilities available to you throughout the University.

To book a confidential appointment go to [Student Hub](#), email AccessAbility@usc.edu.au or call 07 5430 2890.

10.8. 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>

10.9. 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.

10.10. General Enquiries

In person:

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

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au