

COURSE OUTLINE

ICT120 Computer Networks

School: School of Science, Technology and Engineering

UniSC Sunshine Coast
UniSC Moreton Bay

BLENDED
LEARNING

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

Internet, the network of computers worldwide, has become an indispensable part of almost every business, school, and home. This course guides you to explore the fundamental technologies and solutions in network applications, hardware components, architectures, communication protocols, industrial standards, and system management. You will understand how networks, as small as an in-home local area network or as big as the Internet, are built and how they work to enable information sharing and communications across devices. You will also gain hands-on experience in network simulations and traffic analysis which will help you utilise the learned knowledge into real-world practices.

1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
BLENDED LEARNING			
Learning materials – Asynchronous Learning Materials	1hr	Week 1	12 times
Tutorial/Workshop 1 – In-class tutorial	2hrs	Week 1	13 times
Seminar - Common Session (Week 1)	1hr	Week 1	Once Only
ONLINE			
Learning materials – Asynchronous Learning Materials	1hr	Week 1	12 times
Tutorial/Workshop 1 – Interactive Zoom tutorial	2hrs	Week 1	13 times
Seminar – Common Session (Week 1)	1hr	Week 1	Once Only

1.3. Course Topics

Introduction to Computer Networks.

Network Hardware Essentials.

Network Topologies and Technologies.

Network Media.

Network Protocols.

IP Addressing.

Network Reference Models and Standards.

Network Hardware in Depth.

Introduction to Network Security.

Wide Area Networking and Cloud Computing.

Network Management and Administration.

Troubleshooting and Support.

2. What level is this course?

100 Level (Introductory)

Engaging with discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Limited or no prerequisites. Normally, associated with the first full-time study year of an undergraduate program.

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

COUR	SE LEARNING OUTCOMES	GRADUATE QUALITIES		
On su	uccessful completion of this course, you should be able to	Completing these tasks successfully will contribute to you becoming		
1	Implement the foundation concepts of networks.	Knowledgeable Empowered		
2	Explain fundamental networking concepts.	Empowered		
3	Apply networking concepts to solve a business problem.	Creative and critical thinker		
4	Demonstrate knowledge and uses of new areas of networking.	Knowledgeable Creative and critical thinker		

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

Not applicable

5.2. Co-requisites

Not applicable

5.3. Anti-requisites

Not applicable

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

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

case studies discussed in the tutorial provide early feedback.

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	Quiz/zes	Individual	20%	One-hour	Week 5	Online Test (Quiz)
All	2	Report	Individual	40%	weeks 6-10	Week 10	Online Assignment Submission with plagiarism check
All	3	Examination - Centrally Scheduled	Individual	40%	one hour	Exam Period	Online Assignment Submission with plagiarism check

All - Assessment Task 1: Mid-semester test

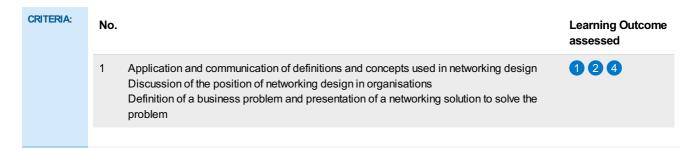
GOAL:	To demonstrate knowledge of foundation concepts of computer networks.				
PRODUCT:	Quiz/zes				
FORMAT:	This is an individual assessment that covers the first 4 weeks of content. Further details will be available on Canvas in the assignment specification.				
CRITERIA:	No.	Learning Outcome assessed			
	1 Comprehension and knowledge of foundation concepts of computer networks.	24			

All - Assessment Task 2: Technical report

GOAL:	To demonstrate your ability to design and implement networking solutions according to business needs.	
PRODUCT:	Report	
FORMAT:	This is an individual assessment. A technical report explaining the networking solution for a specified business case study. Further details will be available on Canvas in the assignment specification.	
CRITERIA:	No.	Learning Outcome assessed
	1 Critical analysis of an organisation's networking requirements Application of the networking concepts to the business problem Justification of developed network solution Written communication skills	134

All - Assessment Task 3: Final examination

GOAL:	To demonstrate your knowledge and understanding of computer networks.		
PRODUCT:	Examination - Centrally Scheduled		
FORMAT:	This is an individual assessment		



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
Required	Greg Tomsho	2020	Guide to Networking Essentials	8th ed	Cengage

8.2. Specific requirements

Not applicable

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:

The final mark is in the percentage range 47% to 49.4%

The course is graded using the Standard Grading scale

You have not failed an assessment task in the course due to academic misconduct

10.3. Assessment: Submission penalties

Late submission of assessment tasks may be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.
- 10% (of the assessment task's identified value) for the third day 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.
- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task. Weekdays and weekends are included in the calculation of days late. To request an extension you must contact your course coordinator to negotiate an outcome.

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: 0754301168 or using the SafeZone app. For general enquires contact the SafeUniSC team by phone 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 <u>07 5430 1226</u> or email <u>studentwellbeing@usc.edu.au</u>.

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 <u>Learning Advisers</u> web page for more information, or contact Student Central for further assistance: +61 7 5430 2890 or <u>studentcentral@usc.edu.au</u>.

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 <u>Student Charter</u> 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
- o UniSC SouthBank Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- o UniSC Gympie Student Central, 71 Cartwright Road, Gympie
- o UniSC Fraser Coast Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- o **UniSC Caboolture** Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au

