COMPUTER NETWORKING INFORMATION TECHNOLOGY, ASSOCIATE IN SCIENCE

The Computer Networking/IT Associate in Science Degree prepares students for excellent career opportunities that are in demand such as an IT support specialist, network specialist, network engineer, network administrator, cybersecurity professional, WLAN specialist, cloud and virtualization specialist, and IT sales positions. Every CNIT course is mapped to a specific IT industry certification exam to help ensure that the training is current and prepares students for IT jobs that are in demand.

Due to our academic partnerships with prominent technology industry leaders, most CNIT courses come with either free or significantly discounted curriculum costs. Within our program, students are also entitled to significant academic discounts on IT certification exam vouchers. We are a Cisco Networking Academy, CompTIA Academy Partner Program, Amazon AWS Academy, Red Hat Linux Academy, Microsoft Azure for Education Partner, and TestOut Academic Partner. Through these collaborations, we aim to provide our students with access to the latest technologies and tools, to help ensure that they stay ahead of the curve in today's rapidly evolving IT landscape.

Course ID	Title	Units/ Hours	
Required Core Courses			
CNIT R101	IT Essentials		
CNIT R120	Cisco CCNA Computer Networking I		
CNIT R121	Cisco CCNA Computer Networking II		
CNIT R130	Administer Microsoft Windows Desktop Operating System		
CNIT R145	CompTIA Security+ IT Security and Certification Preparation		
CNIT R151	Cloud Computing and Virtualization		
Select a minimum of 9 units from the following (no more than 4 units of COT may be selected):			
CNIT R127	Wireless Networking Fundamentals		
CNIT R131	Administer Microsoft Windows Server		
CNIT R142	CompTIA A+ Technician and Certification Preparation		
CNIT R143	Linux Fundamentals		
CNIT R144	CompTIA Network+ Fundamentals and Certification Preparation		
CNIT R146	Cybersecurity: Fundamentals of Ethical Hacking		
CNIT R161	Programming Essentials in Python		
CNIT R170	Introduction to Artificial Intelligence		
CNIT R191A	Work Experience Education in Computer Networking / Information Technology I		
CNIT R191B	Work Experience Education in Computer Networking / Information Technology II		
CNIT R191C	Work Experience Education in Computer Networking / Information Technology III		
Total Required Major Units			
Oxnard College General Education Pattern			

Double-Counted Units	0
Free Electives Required	0-1
Total Units Required for A.S. Degree	60-62

To complete the Associate Degree, students must meet requirements in the major, general education, competency, units, scholarship, and residency. Refer to Education Pathways - Earn an Associate Degree and the A.A. or A.S. Degree in Specific Majors sections of this catalog.

the A.A. of A.S.	begree in Specific Majors Sections of this cate	liog.
Year 1		
Fall Semester		Units/Hours
CNIT R101	IT Essentials	3
CNIT R120	Cisco CCNA Computer Networking I	4
GE Area D1 English (Composition (choose ENGL R101 or ENGL R101H)	4
GE Area B1 American History/Institutions (choose one course)		
Recommended: ENGL R101 support course (choose ENGL R101S or ENGL R101E)		
	Units/Hours	16
Spring Semester		
CNIT R121	Cisco CCNA Computer Networking II	4
CNIT R151	Cloud Computing and Virtualization	4
Select one course from CNIT elective list		
GE Area D2/Math Co	ompetency (choose one math course)	3-6
GE Area B2 Social ar	nd Behavioral Sciences (choose one course)	3
	Units/Hours	17-21
Year 2		
Fall Semester		
CNIT R130	Administer Microsoft Windows Desktop Operating System	3
CNIT R145	CompTIA Security+ IT Security and Certification Preparation	3
Select one course fro	om CNIT elective list	1-4

	Total Units/Hours	60-75
	Units/Hours	14-20
GE Area E2 Kinesiolo	gy (choose one activity course)	1
GE Area C2 Humaniti	3	
GE Area C1 Fine/Perl	3	
GE Area A2 Physical	3-5	
Select one course fro	1-4	
Select one course fro	3-4	
Spring Semester		
	Units/Hours	13-18
GE Area E1 Health Ed	3	
GE Area A1 Biologica	3-5	
Select one course fro	1-4	
CNIT R145	CompTIA Security+ IT Security and Certification Preparation	3
CNIT R130	Administer Microsoft Windows Desktop Operating System	3

Upon successful completion of this program, students will be able to:

- Create a routed network utilizing the proper cabling, IP addressing scheme, and routing protocol.
- Troubleshoot and properly document a computer network problem using a structured methodology.
- Implement technologies to create a secure network to protect the confidentiality of data and demonstrate competency in mitigating network vulnerabilities.
- Demonstrate competency in soft skills to include the ability to communicate effectively, employ critical thinking, and problem solve.
- Create a virtual machine (VM) with specific resource settings, install an OS on the VM, and connect the VM to a computer network to share resources.
- · Scan and assess the network and devices for vulnerabilities.