COMPUTER NETWORKING INFORMATION TECHNOLOGY, CERTIFICATE OF ACHIEVEMENT

The Computer Networking/IT Certificate of Achievement 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		**21**
CNIT R101	IT Essentials	3
CNIT R120	Cisco CCNA Computer Networking I	4
CNIT R121	Cisco CCNA Computer Networking II	4
CNIT R130	Administer Microsoft Windows Desktop Operating System	3
CNIT R145	CompTIA Security+ IT Security and Certification Preparation	3
CNIT R151	Cloud Computing and Virtualization	4
Select a minimum of 9 units from the following (no more than 4 units of COT may be selected):		**9**
CNIT R127	Wireless Networking Fundamentals	3
CNIT R131	Administer Microsoft Windows Server	3
CNIT R142	CompTIA A+ Technician and Certification Preparation	4
CNIT R143	Linux Fundamentals	3
CNIT R144	CompTIA Network+ Fundamentals and Certification Preparation	4
CNIT R161	Programming Essentials in Python	3
CNIT R146	Cybersecurity: Fundamentals of Ethical Hacking	3
CNIT R170	Introduction to Artificial Intelligence	3
CNIT R191A	Work Experience Education in Computer Networking / Information Technology I	1-14
CNIT R191B	Work Experience Education in Computer Networking / Information Technology II	1-14
CNIT R191C	Work Experience Education in Computer Networking / Information Technology III	1-14
Total Required Units for Certificate		**30-33**

To complete the Certificate of Achievement, students must also meet requirements in scholarship and residency. Refer to Education Pathways - Earn a Certificate of Achievement section in this catalog for specific information.

Year 1		
Fall Semester		**Units/Hours**
CNIT R101	IT Essentials	3
CNIT R120	Cisco CCNA Computer Networking I	4
CNIT R130	Administer Microsoft Windows Desktop Operating System	3
Select one course from CNIT elective list		3-4
	Units/Hours	**13-14**
Spring Semester		
CNIT R121	Cisco CCNA Computer Networking II	4
CNIT R151	Cloud Computing and Virtualization	4
Select one course from CNIT elective list		3-4
	Units/Hours	**11-12**
Year 2		
Fall Semester		
CNIT R145	CompTIA Security+ IT Security and Certification Preparation	3
Select two courses from CNIT elective list		6-8
	Units/Hours	**9-11**
	Total Units/Hours	**33-37**

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.