

IT SPECIALIST CERTIFICATE OF ACHIEVEMENT

IT and networking professionals are a vital part of many businesses, and these skills are highly sought by such employers. The IT Specialist certificate helps prepare students for positions known variously as IT support, network/systems administrator, network/systems engineer, network/systems technician, and network/systems analyst.

Required Courses

Course Number	Course Name	Units
CSC 102	IT and Computer Science Career Exploration	1
CSC 105	Introduction to Linux I	1.5
CSC 106	Introduction to Linux II	1.5
CSC 109A	IT Support I	1
CSC 116	Information and Communication Technology Essentials	4
CSC 117	Computer Network Fundamentals	3
CSC 118	Introduction to Information Systems Security	3
CSC 220	Introduction to Computer Science	4

Total units required for Certificate

19

Program Level Student Learning Outcomes:

1. Demonstrate the ability to explain and use secure network administration principles, identify and explain types of threats and vulnerabilities, and be able to explain key concepts in the area of access control and identity management.
2. Describe the function of each of the major hardware components of a computer system.
3. Install, configure, and troubleshoot various operating systems.
4. Explain the layers of the OSI model.
5. Identify characteristics of network topologies and protocols.
6. Demonstrate the ability to explain general cryptography concepts and use the appropriate cryptographic method for various scenarios.