



**Academic Plan**  
**Network Services Certificate**  
**EFFECTIVE CATALOG YEAR 2018-2019**



## **Required Courses**

**CSC 150- Computer Science I – 3 credits**

An introduction to computer programming. Focus on problem solving, algorithm development, design, and programming concepts. Topics include sequence, selection, repetition, functions, and arrays.

**CSC 328- Operating Environments – 3 credits**

This course examines the role of the operating system in computer operations. Current operating environments include Windows, UNIX/Linux, and similar operating environments are studied from a theoretical and hands-on perspective.

**CSC 383- Networking I – 3 credits**

LAN topologies, media choices, protocols and transmission techniques are addressed. Overview of LAN planning and installation considerations. LAN hardware and software offerings and problem determination procedures are presented.

**CSC 385- Networking II – 3 credits**

This class focuses on the technical networking essentials of the development, maintenance and use of e-commerce sites. Topics include coverage of network concepts and theory, intranets, extranets, server issues, enterprise computing, virtual hosting, and security considerations. Prerequisite: CSC 383