

Computer Networking (CNC)

This certificate will provide the students with the necessary skills to design and manage a cloud-based network. Upon completion of the certificate, the student, in addition to acquiring an understanding of the basic data communication and networking concepts, will be proficient in the basic skills to manage both virtual and real servers and networks. The certificate will provide students with a solid foundation in cloud platform components. Students completing the certificate may pursue careers in network support and server administration. Students who complete the CNC certificate may choose to continue coursework to complete the entire A.A.S. degree in Computer Information Systems (CIS) at DCC. A Certificate is awarded upon completion of the requirements for this program.

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Students who successfully complete the Certificate in Computer Networking (CNC) will be able to:

- Demonstrate an appreciation of the breadth and complexity of the IT communication field;
- Identify and describe the necessary required skills in each of the segments in the IT industry communication sector;
- Design an effective LAN and WAN;
- Manage, maintain and optimize a LAN;
- Demonstrate proficiency in Linux and Windows;
- Demonstrate the technical and business aspects of the internet;
- Implement routing principles.

Courses should be selected in consultation with an advisor.

First Semester

Course No.	Descriptive Title	Credit Hours
CIS 111	Computer Systems and Applications	3
CIS 112	Computer Programming I	3
CIS 117	Data Communication and Concepts	3
CIS 126 OR	LINUX with Python OR	
CIS 216	Windows Server	3
CIS 106	Cloud Computing Fundamentals	3
TOTAL		15

Second Semester

Course No.	Descriptive Title	Credit Hours
CIS 124	Computer Operating Systems	3
ENG 101	Composition I	3

CIS 150 OR	Information Management Security OR	
CIS 140	Health Information Management	3
CIS 265	CIS Career Capstone Seminar	3
CIS 218	Routing and Switching Technology	3
TOTAL		15
	TOTAL CREDIT HOURS	30

NOTE:

Students enrolled in a Certificate program must complete at least 50% of the program credits at DCC.* Students must earn an overall cumulative GPA of 2.0 or higher in order to be awarded the certificate.

*Certain courses may be required to be taken at DCC; check your specific program for these exceptions.