

COMPUTER INFORMATION SYSTEMS: CLOUD COMPUTING CERTIFICATE

Program code: CISC-CC

Location: Gateway, Housatonic, Naugatuck Valley, Northwestern

Program Description

The Cloud Computing certificate educates students in areas of cloud computing technologies. Students will learn more about how organizations evaluate and implement cloud-based technology solutions. The program will cover several aspects of the Cloud including hardware, software, and infrastructure. Students will develop foundational and practical knowledge of developing and deploying cloud-based solutions in modern day integrated business environments. Aspects of computing virtualization and vendor management will also be covered.

Learning Outcomes

1. Describe the concepts, characteristics, delivery models and benefits of cloud computing
2. Describe the key security and compliance challenges of cloud computing
3. Demonstrate understanding of key technical and organizational challenges with a focus on business integration
4. Analyze business requirements for implementation to map the distinctive characteristics of public, private and hybrid cloud models

Certificate Requirements

CSC 1201 Introduction to Programming *and* CSC 2213 Object Oriented Programming *are not allowed in this program. Students are encouraged to take CSC 1211 Java I or other programming language.*

Code	Title	Credits
Required Courses		
CIS 2131	Fundamentals of Cloud Computing	3
CST 1221	Networking I	4
CIS 2232	Designing and Deploying Cloud Applications	3
Elective CPL - Computer Programming Language Course		3-4
Choose one of the following:		3-4
CSC 2235	Introduction to Database Design	
CSC 1231	Database Development and Design I	
Elective CPL - Computer Programming Language Course		
CIS 1143	Project Management	3
or CIS 2144	Systems Analysis and Design	
Total Credits		19-21

There are five Associate degree options within Computer Information Systems. Students may earn only one degree but can earn additional certificates.

- Computer Information Systems: Computer Programming Certificate
- Computer Information Systems: Networking, AS
- Computer Information Systems: Programming

- Computer Information Systems: IT Support
- Computer Information Systems: IT Support Certificate
- Computer Information Systems: Computer Networking Certificate
- Computer Information Systems: Generalist
- Computer Information Systems: Cloud Computing
- Computer Information Systems: Data Analytics