

COMPUTER AND INFORMATION SCIENCES: CLOUD COMPUTING (CERT)

CERTIFICATE OF ACHIEVEMENT

The Cloud Computing program prepares students to design solutions for Infrastructure as a Service (IaaS) architectures by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment. Students produce dynamic solutions responsive to information and computing technology workloads with on-demand pay-as-you-go pricing allowing flexibility for small business, entrepreneurship and enterprise adoption. Industry certifications are embedded to prepare for occupations in Cloud Architect, Cloud Support Associate, Cloud Engineer or Cloud Technicians. Some preparation in information technology or computer programming is recommended.

Program Student Learning Outcomes

- Design Infrastructure as a Service (IaaS) solutions by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment.
- Analyze performance metrics of a cloud architecture to respond dynamically to information and computing technology workloads and optimize service costs.
- Collaborate in a team designing business solutions in an industry aligned project.

Program Requirements

Code Number	Course Title	Units
Division/Department Requirements		
CIS 170B	Network + Certification	3.5
CIS 171A	Introduction to Cloud Computing	3.0
CIS 171B	Amazon Web Services-Data Storage	3.0
CIS 171C	Amazon Web Services-Computing Services	3.0
CIS 171D	Amazon Web Services-Security	3.0
Electives		
Select one of the following:		3.5
CIS 164	JavaScript Programming (3.5)	
CIS 183	Java Programming (3.5)	
Total Units		19