HIGHLAND COMMUNITY COLLEGE

Syllabus

CST215 Essentials to Cloud Computing
3 Credit Hours
Revision Date: 03/06/2023

Department:

Computer Support Technology

Course Description:

This course introduces students to the exam objectives of the CompTIA Cloud+ certification exam. Topics covered include configuration and deployment of cloud implementations, security related to cloud computing, maintenance of cloud computing environments, management of cloud deployments, and troubleshooting cloud implementations.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Describe principles of cloud computing configuration and deployment
2. Identify the cloud computing standards pertaining to compliance and operational security.
3. Describe the steps necessary to maintain a cloud computing environment.
4. Identify methods of managing cloud computing environments.
5. Describe the techniques used to troubleshoot and resolve cloud computing issues and problems.

Course Content:

A. Introduction to Cloud Computing
B. Virtual Hardware
C. Migration to the Cloud
D. Cloud Networking
E. Cloud Connectivity and Troubleshooting
F. Securing Cloud Resources
G. Identity and Access Management
H. Cloud Storage
I. Managing Cloud Performance
J. Cloud Automation

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

Instructional Materials:

Textbook: West, J. (2023). *CompTIA Cloud+ Guide to Cloud Computing* (2nd ed.). Boston, MA: Cengage Learning. ISBN-13: 978-0-357-88345-7

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" on our Disability Services website.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an online report about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our Equity Grievance Policy.