CIS 294: System Administration and IT Infrastructure Service

Overview

This course will transition learners from working on a single computer to an entire fleet. Systems administration is the field of IT that's responsible for maintaining reliable computer systems in a multi-user environment. In this course, learners will learn about the infrastructure services that keep all organizations, big and small, up and running. We'll deep dive on cloud so that they will understand everything from typical cloud infrastructure setups to how to manage cloud resources. They will also learn how to manage and configure servers and how to use industry tools to manage computers, user information, and user productivity. Finally, they will learn how to recover an organization’s IT infrastructure in the event of a disaster.

What You’ll Learn

- Utilize best practices for choosing hardware, vendors, and services for your organization
- Understand how the most common infrastructure services that keep an organization running work, and how to manage infrastructure servers
- Understand how to make the most of the cloud for your organization
- Manage an organization’s computers and users using the directory services, Active Directory, and OpenLDAP
- Choose and manage the tools that your organization will use

How to Succeed

To be successful in this course, we recommend English language fluency and computer literacy. We also encourage you to make sure your laptop or desktop computer meets the technical requirements. Required prerequisites for this course:

- CIS 194 Business Technology Fundamentals
- CIS 194 Computer Networking in Organizations
- CIS 194 Operating Systems Management for Business

Earn College Credit

This course appears on your transcript identically to how it appears on the transcript of an enrolled ASU student.

This course satisfies 3 credit hour at Arizona State University. It is strongly encouraged that you consult with your institution of choice to determine how these credits will be applied.

In order to receive academic credit for this course, you must earn a grade of “C” or better. You have one year to add the course to your transcript.

This course is the fourth in a series that will prepare you for a Google IT Certificate.

Exams and Grading

- 49% Google Module Completion
- 30% Quizzes
- 12% Reflections
- 9% Writing Assignment