

ITIS 180A: INTRODUCTION TO CLOUD COMPUTING

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2022
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Strongly Recommended:	ENGL 101.
Transferable to CSU:	No
Transferable to UC:	No
Grading Method:	Standard Letter

Catalog Course Description

This course introduces cloud computing which shifts information systems from on-premises computing infrastructure to highly scalable internet architectures. The course provides a solid foundation of cloud computing technologies and provides students with the understanding required to effectively evaluate and assess the business and technical benefits of cloud computing and cloud applications. Students analyze a variety of cloud services (storage, servers and software applications) and cloud providers. Case studies will be used to examine various industry cloud practices and applications. The course also surveys cloud careers and discusses industry demand for cloud skills. 54 lecture hours.

Course Objectives

- Describe the cloud computing model
- Describe examples of infrastructure as a service
- Describe examples of platform as a service
- Describe examples of software as a service
- Identify and mitigate security concerns associated with cloud computing
- Identify and mitigate legal concerns associated with cloud computing
- Use current cloud services from leading service providers

Major Course Content

1. Introduction to Cloud Computing
2. Approaches to Cloud Computing: Public, Private and Hybrid, The NIST Model
3. Software as a Service: Examples, Case Studies
4. Platform as a Service: Examples, Case Studies
5. Infrastructure as a Service: Examples, Case Studies
6. Security Concerns with Cloud Computing
7. Continuity Concerns with Cloud Computing
8. Legal Concerns with Cloud Computing
9. Google Cloud Services: Email, Calendar, Drive, Music
10. Amazon Cloud Services: Cloud Drive, Cloud Player and AWS

11. Apple Cloud Services: iCloud, iTunes
12. Careers in Cloud Computing

Examples of Required Writing Assignments

After reading a case study, create a justification and proposal for working with cloud-enabling technology that meets the stated requirements.

Examples of Outside Assignments

Working with Google cloud services, create and share your calendar. Working with Amazon Web Services (AWS), create and host a web site powered by AWS

Instruction Type(s)

Lecture, Online Education Lecture