

CSE 415
FUNDAMENTALS OF CLOUD COMPUTING
Fall 2023

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Course Schedule:

Lecture: Thursday 13:30 D206

Course Materials:

- <https://learn.microsoft.com/en-us/training/azure/>
- <https://learn.microsoft.com/en-us/certifications/exams/az-900/>
- <https://www.youtube.com/watch?v=NKEFWyqJ5XA>

Course Objectives:

This course is designed to introduce fundamental concepts of cloud computing and provide a comprehensive understanding of Microsoft Azure. It covers the basics of cloud computing, Azure services, deployment models, and prepares students for the Microsoft AZ-900 exam. Upon successful completion of this course, students will be able to:

- Understand the core concepts of cloud computing.
- Navigate the Microsoft Azure portal effectively.
- Describe Azure services and their use cases.
- Prepare for the Microsoft AZ-900 exam.

Grading Policy

In-class quizzes	10%
Lab activities	30%
Midterm	20%
Final	40%
Total	100%

Course Outline (tentative):

Week	Subject
01	Introduction to Cloud Computing and Azure
02	Azure Core Services
03	Azure Identity and Access Management
04	Azure Governance and Compliance
05	Azure Management Tools
06	Azure Monitoring and Management
07	Azure Pricing and SLA
08	Tentative Midterm Week
09	Azure Database Services
10	Azure App Services
11	Azure Security
12	Azure DevOps and DevTest Labs
13	Cloud Automation Tools
14	Course Review