

CSCI 5409 Cloud Computing
Fall 2023
Instructor: Dr. Lu Yang

Week 1 - Course Overview
Sep 8, 2023

Course Overview

Agenda

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – Introduction

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – The trend

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – The trend

Gartner Survey (Apr 19, 2023)

Worldwide end-user spending on public cloud services is forecast to grow **21.7%** to total **\$597.3** billion in 2023, up from **\$491** billion in 2022.

All segments of the cloud market are expected see growth in 2023. Infrastructure-as-a-service (**IaaS**) is forecast to experience the **highest** end-user spending growth in 2023 at **30.9%**, followed by platform-as-a-service (PaaS) at 24.1%

Worldwide Public Cloud Services End-User Spending Forecast (Millions of U.S. Dollars)

	2022	2023	2024
Cloud Application Infrastructure Services (PaaS)	111,976	138,962	170,355
Cloud Application Services (SaaS)	167,342	197,288	232,296
Cloud Business Process Services (BPaaS)	59,861	65,240	71,063
Cloud Desktop-as-a-Service (DaaS)	2,525	3,122	3,535
Cloud Management and Security Services	34,487	42,401	51,871
Cloud System Infrastructure Services (IaaS)	114,786	150,310	195,446
Total Market	490,977	597,325	724,566

Course Overview – Are you prepared?

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – Are you prepared?

- FCS cloud courses
 - CSCI 5409 Adv. Topics in Cloud Computing
 - CSCI 5410 Serverless Data Processing
 - CSCI 5902 Adv. Cloud Architecting
- On-line courses
 - Coursera, Udemy, Pluralsight, and so on
- Youtube

Course Overview – Are you prepared?

Cloud certifications (AWS as an example)

(<https://aws.amazon.com/certification/>)

(<https://www.youtube.com/watch?v=fgbdtNNXROU>)

Course Overview – Are you prepared?

Cloud career path (AWS as an example)
(<https://www.jeffersonfrank.com/insights/aws-cloud-career-paths>)

Course Overview – How do we work together

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – How do we work together

Introduction

The trend

Are you prepared?

- Cloud courses
- Cloud certifications
- Cloud career path

Syllabus

How do we work together

- Teaching
- Learning

Course Overview – How do we work together (1/2)

- Teaching
 - Fairness
 - Feedback
 - Support
 - My biggest concern
- Learning
 - Never be nervous
 - Try hard to learn by yourself
 - Ask questions
- No Kahoot bonus

Course Overview – How do we work together (2/2)

- AWS Academy courses and labs
 - The course is outdated. Refer to our course slides.
- AWS Academy learner lab
 - A place for you to practice AWS services and do your assignments.
 - Don't mix it with the learner labs in other courses.
- AWS certifications and exam vouchers
 - It's reimbursed if you pass the exams.
- GCP credits will be issued
 - Don't claim the credits multiple times using multiple emails