

CSCI 5902 Adv. Cloud Architecting
Fall 2023
Instructor: Dr. Lu Yang

Week 1 - Course Introduction
Sep 8, 2023

CSCI 5902 Adv. Cloud Architecting



Course Overview

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 – Introduction



Difficulty level: _____

AWS level: _____

Materials: _____

Characteristics: _____

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



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

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%

	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

<https://www.gartner.com/en/newsroom/press-releases/2023-04-19-gartner-forecasts-worldwide-public-cloud-end-user-spending-to-reach-nearly-600-billion-in-2023>

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 (5411) - 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=fgbdtNXXR0U>)

Course Overview – Are you prepared?



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

Course Overview – Syllabus



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 Saturday chat, but
- 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.
 - The labs included in the course are your challenge lab assignments.
 - Don't mix the AWS Academy courses with CSCI 5410.
- AWS Academy learner lab
 - An extra place for you to practice AWS services.
- AWS certifications and exam vouchers
- Azure services