

COMP 529: Cloud Computing Spring 2021

THIS IS A DRAFT SYLLABUS WHICH MAY BE UPDATED THROUGHOUT THE COURSE

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Instructor

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Course Information

COMP 529

Lecture time & place: Wednesdays 6:00pm, Online

Course web page: http://www.msoltys.com/?page_id=5838

Course Description

This course covers the fundamentals of building IT infrastructure in the Cloud, using AWS as an example (with other examples from Google Cloud and Microsoft Azure). Throughout the course, students will explore case studies that showcase how some AWS customers have designed their infrastructures and the strategies and services that they have implemented. Finally, this course provides opportunities for students to build a variety of infrastructures through a guided, hands-on approach.

Prerequisite: An undergraduate level understanding of networking (for example, at CSUCI COMP 429) and cybersecurity (for example, at CSUCI COMP 424, or COMP 524).

Student Learning Outcomes

See [Course Objectives](#) for a detailed list.

Course Outline

Tentative list of topics in order of lectures:

Week	Dates	Material
1	Jan 25 – 29	Module 1, AWS Overview and intro to class
2	Feb 1 – 5	Module 2
3	Feb 8 – 12	Module 3
4	Feb 15 – 19	Module 4
5	Feb 22 – 26	Module 5
6	Mar 1 – 5	Module 6
7	Mar 8 – 12	Module 7
8	Mar 15 – 19	<i>Spring Break</i>
9	Mar 22 – 26	Module 8
10	Mar 29 – Apr 2	Module 9
11	Apr 5 – 9	Module 10
12	Apr 12 – 16	Module 11
13	Apr 19 – 23	Module 12
14	Apr 26 – 30	Module 13
15	May 3 – 7	Module 14
16	May 10 – 14	Module 15 and Capstone due

Textbook

There is no required textbook, however, for students without a strong networking background it is recommended that they use *Computer Networking: A top down approach* by Kurose & Ross (ed. 7). All the material for the course will be provided free of charge, in terms of whitepapers, slides, prepared labs, etc.

Grading

1. Quizzes (aka, “Knowledge Checks”)
2. Guided Labs
3. Challenge labs
4. Capstone

Policies

1. **Academic Dishonesty:** By enrolling at CSU Channel Islands, students are responsible for upholding the University’s policies and the Student Conduct Code. Academic integrity and scholarship are values of the institution that ensure respect for the academic reputation of the University, students, faculty, and staff. Cheating, plagiarism, unauthorized collaboration with another student, knowingly furnishing false information to the University, buying, selling or stealing any material for an examination, or substituting for another person may be considered violations of the Student Conduct Code (located at <http://www.csuci.edu/campuslife/student-conduct/academic-dishonesty.htm>).

If a student is found responsible for committing an act of academic dishonesty in this course, the student may receive academic penalties including a failing grade on an assignment or in the course, and a disciplinary referral will be made and submitted to the Dean of Students office. For additional information, please see the faculty (located at <https://senate.csuci.edu/policies/2013-2014/sp-13-06-policy-on-academic-dishonesty-rev-oct2016.pdf>), also in the CI Catalog.

The assignments will be written in groups. Each group has to work independently of the other groups; verbal discussions of problems among groups are allowed, but you should not show written notes, and you should not leave such discussions with written notes. Please speak to the instructor if these expectations are not clear.

- 2. Disability Statement:** If you are a student with a disability requesting reasonable accommodations in this course, please visit Disability Accommodations and Support Services (DASS) located on the second floor of Arroyo Hall, or call 805-437-3331. All requests for reasonable accommodations require registration with DASS in advance of need: <https://www.csuci.edu/dass/students/apply-for-services.htm>. Faculty, students and DASS will work together regarding classroom accommodations. You are encouraged to discuss approved accommodations with your faculty.
- 3. Course Policies Subject to Change:** It is the student's responsibility to check the course's web page frequently to stay abreast of the course, and for corrections or updates to the syllabus. Any changes will be posted there.