Metropolitan State University
ICS 432 - 01: Distributed and Cloud Computing
Fall 2021

4 Credits
Delivery: Remote Teaching No In-person (RMTN)
Synchronous Lectures on Saturdays, 9:00 AM – 12:20 PM
August 21– December 11, 2021
Link for Zoom lectures: https://minnstate.zoom.us/j/93348590067

Updated Course Schedule as of 10/15/2021

Note: The instructor reserves the rights to make adjustments to this Syllabus and Schedule as deemed necessary.

Week	Date	Topics	Lab#	Quiz#	Homework
1	8/21	-Syllabus -Introduction to cloud computing		0	*Setup your AWS & GCP accounts.
2	8/28	-Getting started with AWS & GCP hands-on	1	1	
3	9/11	-Compute in the cloud	2	2	Homework 1 out
4	9/18	-Cloud storage	3	3	
5	9/25	Cloud storage (continued)	4	4	
6	10/2	File System and Distributed File System	5	5	Homework 1 due Homework 2 out
7	10/9	-Networking -Auto scaling and monitoring	6	6	
8	10/16	-Cloud enabling technologies -Virtualization	7	7	
9	10/23	-Introduction to big data and Hadoop -Map-reduce	8	8	Homework 2 due
10	10/30	-Map-reduce continued	9	9	Homework 3 out
11	11/6	-NoSQL Systems	10	10	
12	11/13	-Serverless compute -Web services & APIs	11	11	
13	11/20	-Introduction to Containerization and docker		12	Homework 3 due Homework 4 out
	11/22	Last day to withdraw (no refund).			
	11/27	No Class. Thanksgiving Break			
14	12/4	Final Exam			
	12/8				Homework 4 due
15	12/11	-Distributed Systems concepts	12		