

## 1.125 Software Engineering & Architecting

### Cloud Computation

SES #	Date	TOPICS	HOMEWORK
LECT 1	Thu, Sep 7	Introduction & Course Overview	HW00: Install VSCode
LECT 2	Tue, Sep 12	The Full Stack - Node	HW01: AWS VM - HTTP Server
LECT 3	Thu, Sep 14	Virtual Machines - AWS	
			HW01 DUE, HW02 OUT
LECT 4	Tue, Sep 19	Representational State Transfer - REST	HW02: AWS VM - REST API
LECT 5	Thu, Sep 21	Microservices	
			HW02 DUE, HW03 OUT

### Containers and Data Stores

SES #	Date	TOPICS	HOMEWORK
LECT 6	Tue, Sep 26	Containers	HW03: HTTP Server In Container
LECT 7	Thu, Sep 28	Package Management - NPM	
			HW03 DUE, HW04 OUT
LECT 8	Tue, Oct 3	Data Stores	HW04: Three Tier App
LECT 9	Thu, Oct 5	Data Services	
			HW 04 DUE
Holiday	Tue, Oct 10	Columbus Day	No HW this week

### Blockchain & Machine Learning (ML)

SES #	Date	TOPICS	HOMEWORK
LECT 10	Thu, Oct 12	Collaboration - GIT, CI, CD	
			HW05 OUT
LECT 11	Tue, Oct 17	Blockchain	HW05: Dapp
LECT 12	Thu, Oct 19	Merkle Trees	
			HW05 DUE, HW06 OUT
LECT 13	Tue, Oct 24	ML I	HW06: ML & Project Proposal
LECT 14	Thu, Oct 26	ML II	
			HW06 DUE, HW07 OUT

### Hardware & Devices

SES #	Date	TOPICS	HOMEWORK
LECT 15	Tue, Oct 31	Coordination - Asynchronous Computation	HW07: Project Deliverable 01
LECT 16	Thu, Nov 2	Pub-Sub, Streaming, Web Sockets - Kafka	
			HW07 DUE, HW08 OUT
LECT 17	Tue, Nov 8	Hardware & Devices I	HW08: Project Deliverable 02
LECT 18	Thu, Nov 9	Hardware & Devices II	
			HW08 DUE, HW09 OUT

Project			
SES #		TOPICS	HOMEWORK
QUIZ	Tue, Nov 14	Project	HW09: Project Deliverable 03
LECT 19	Thu, Nov 16	Project	
			HW09 DUE
LECT 20	Tue, Nov 21	Project	HW05: No HW this week
LECT 21	Thu, Nov 23	Thanksgiving Vacation	
			HW10 OUT
PROJ 01	Tue, Nov 28	Project	HW10: Project Deliverable 04
PROJ 02	Thu, Nov 30	Project	
			HW10 DUE
PROJ 04	Tue, Dec 5	Project	
PRESENT	Thu, Dec 7	Project Presentations	
			Term Project Due