

Welcome to CSE 356

Introduction

Today's Lecture

- Course Overview
- Course Topics
- Grading
- Logistics
- Academic Integrity Policy

Course Overview (1/2)

- Caveat 1: I kind of know what I'm doing now.
- Caveat 2: This is (still) the only ugrad class I teach.
- Cloud Computing:
 - “a model for enabling ubiquitous network access to a shared pool of configurable computing resources”
[Wikipedia]
 - Probably the most over-used term in IT
 - We'll cover the hot topics
 - Some will disagree that all of them are “cloud”
 - Even if that's true, useful to know anyway

Today is mostly about setting expectations

Course Overview (2/2)

- Observations from past semesters
 - Requires learning in and outside of class
 - This will be a lot of work
 - Learn highly relevant technologies
 - Learn more than from a traditional class
- Student sentiment
 - Strongest students: get the most out of the course
 - Typical students: filled with fear, drop the course
 - Weakest students: struggle the most
 - Can we change this?

(Likely) Course Topics

Introduction to cloud services, virtualization, paravirtualization, advanced networking, web services, server-side scripting languages and frameworks, cloud programming paradigms, cloud deployment and machine management, scale-up vs scale-out, cloud storage, cloud service topologies, message serialization and transport, load balancing, content distribution networks, security, authentication, QoS, managing tail latencies, performance monitoring

Grading

	Points
10 Homeworks	2 each
2 Mid-term Exams	10 each
2 Warm-up Projects	10 each
4 Final Project Milestones	10 each

- Letter grades assigned by eye on a curve
 - One std. dev. above the mean is an A
 - Two std. dev. below the mean is an F

Course Project

- You decide
 - Do the assigned project
 - Propose your own project
 - Do a project for me
 - Possibly more fun, if you feel the assigned project is too easy
- Proposing your own project has ups and downs
 - You do something that you want
 - More work for you to do

Have a startup idea? It may make a good project.

Logistics (1/2)

- Working in groups
 - No limit on projects
 - All homeworks must be done individually
- Attendance
 - Optional (but highly advised)
 - No phone use in class
 - Don't test me - I **will** penalize your grade

Logistics (2/2)

- Blackboard
 - Only used for posting grades
- Course Mailing List
 - Subscription is **required**
<https://piazza.com/stonybrook/spring2019/cse356/home>
- Late Policy
 - All deadlines are **3:59PM** on due date
 - 1-point deducted for each late day (in 24-hour increments)
 - Multiplied by number of group members

Academic Integrity Policy

- Summary: don't cheat
- Details: don't take code from anyone for any reason
 - Unmodified third-party open-source libraries permitted

I will enforce this policy very strictly

Questions?