Course Syllabus

CS-UY 1122 - Introduction to Computer Science - Spring 2018

Course Location:	Pfizer Auditorium
Course Website:	https://cs1122.engineering.nyu.edu
Class Times:	Fridays 9:00 am – 11:00 am
Prerequisites:	CS-UY 1114
Contact:	tandon-cs1122@nyu.edu

Course Faculty:	Nasir Memon (Professor) - memon@nyu.edu
	Ian Butler (Head TA) - itb206@nyu.edu
	Momopranto Amin (Head TA) - m.amin@nyu.edu
	Victoria Spann-Burton
	Cindy Lee
	Boying Tang
	Kyle Martin
	Joey Chung
	Joseph Kim

Office location	Room 1923, 19th Floor, 1 MetroTech -Nasir Memon	
Office hours	Fridays	1:30 - 4:00 pm
TA Office Location:	OSIRIS Lab (RH 219)	
TA Office Hours:	Monday	12:30 - 5:00 PM
	Tuesday	2:00-4:00 PM
	Wednesday	2:00 - 6:00 PM
	Thursday	2:00 - 6:00 PM
	Friday	12:00 - 8:00 PM

Course Objectives

This course is designed to:

1. Introduce computer science majors to a variety of sub-disciplines within the broader field of Computer Science
2. Provide students with a hands-on practical experience with skills and tools that directly reflect the applications and methods in the industry
3. Demonstrate the importance and impact of computer science beyond just programming

The topics covered include but are not limited to algorithms, full-stack web development, cybersecurity, data science, cloud infrastructure, and software engineering.

Course Expectations

This course will require significant group work, self learning, public speaking, and independent assignments. Students are expected to attend lectures and complete homework assignments and project milestones on time. **Late assignments will not be accepted.** Extensive circumstances notwithstanding. There will be no midterm or final exam.

The course is heavily focused on three group projects. Groups will be different for every project. Each week will focus on topics related to the current phase of the project. Each class will begin with randomly selected groups doing a short presentation on their progress in the current phase of the project.

The Student Response System (SRS) will be used for class participation. 10% if your grade will depend on class participation.

Homeworks will be due the midnight before class. Homeworks grades consist of:

- 50% competition (correct flag submission)
- 50% source code submission to hw repo on Github

Resources

This course will primarily use the course website (https://cs1122.engineering.nyu.edu) and the CS1122 Github organization. Use of NYU Classes will be limited. We will also be using other platforms such as Trello, AWS, and CircleCI.

Grading Policy

Project 1	20%
Project 2	25%
Project 3	30%
Homework	15%
Participation	10%

Extra Credit:
Students will receive half a point on their final grade for any of the following:

- Participating in any CTFtime.org ranked Capture the Flag competitions with the OSIRIS Lab. Must submit a write up of a solved or attempted challenge (1 page min)
- Attending a Cyber Security Club or Milk Night meeting. Must submit a write up of the topic discussed/presented (½ page min)

Plagiarism

All work turned in should be individual and original. Plagiarism will be severely dealt with. Please see http://engineering.nyu.edu/academics/code-of-conduct for engineering school policies.

Course Schedule

This schedule is tentative (subject to change). All changes will be announced in class.

Week	Date	Agenda
1	1/26	Introduction and Policies
2	2/2	Project 1
3	2/9	Project 1 (cont)
4	2/16	Project 1 (cont)
5	2/23	Project 1 (cont)
6	3/2	Project 1 (cont)
7	3/9	Project 2
	3/16	SPRING BREAK - NO CLASS
8	3/23	Project 2 (cont)
9	3/30	Project 2 (cont)
10	4/6	Project 2 (cont)
11	4/13	Project 3
12	4/20	Project 3 (cont)
13	4/27	Project 3 (cont)
14	5/4	Project 3 (cont)
15	5/11	Project 3 (cont)