Syllabus of CSCI 340 Operating Systems

Xiaoke(Jimmy) Shen May 26, 2020

1 Course Summary

The course is an introduction to the structure and organization of operating systems. It begins with a brief overview of the different types of logical structure and organization of modern operating systems. It takes a look at the major design problems of an operating system, including process management, scheduling, synchronization and communication, memory management, security, and file system design and structure. The focus of the course is not on the details of any particular operating system, but on the concepts of operating system design. Concrete examples are given to clarify concepts, and these may often be drawn from a variety of operating systems, but most will come from UNIX, since it is, among existing operating systems, one of the most sensibly designed and most elegant.

2 Prerequisites

CSCI 235 and CSCI 260, and MATH 155 and either STAT 113 or 213.

3 Textbook

Operating System Concepts, 10th Edition https://www.amazon.com/Operating-System-Concepts-Abraham-Silberschatz-ebook/dp/B07CVKH7BD

4 Assessment

Grades will be based on:

• Class participation 15%

- Assignments 55%
- Exam 30%

The grading will be on a 100-point scale.

Your participation grade depends ONLY on your attendance at this special time. Score = (attended classes)/(total classes - 2). The final score will be max(1, score)*15.

A random time slot will be picked up during the class to record attendance. If you have a solid reason cannot attend a class, DO send me email in advance. If not you WILL lose your attendance point for the missing class. Please submit the assignments on the black board only unless explictly specified. Assignments contain nongrading assignments and grading assignments. It will be speficied in the assignment description. You are expected to have some coding exercises in the assignments.

There will be a penalty for assignments submitted late, which is moderate but increasing and specified:

- (0, 24]:-10
- (24, 48]: -20
- (48, 72]: -30
- > 72: -100

The late policy also applys to the nongrading assignments.

5 ACADEMIC INTEGRITY

please read the contents of the link below: http://www.hunter.cuny.edu/provost/academic-integrity

6 ACCESSIBILITY SERVICES

please read the contents of the link below: https://hunter.cuny.edu/accessibility/

7 Instructor & Coordinator and Computer Science Dept. info

Instructor:Xiaoke Shen, Email: jim.morris.shen@gmail.com, Office Hours: by appointment

About the instroctor: Xiaoke(Jimmy) Xiaoke Shen is currently pursuing Doctor of Computer Science degree at the Graduate Center, City University of New York. He has 5 years teaching experience within CUNY system. His research interests include Algorithm, Machine Learning, Computer Vision.