CSCI-GA.2250-001: Operating Systems
Spring 2013

Meeting time: Tuesdays 7:10-9:00 pm (WWH 109)

Instructor: Mohamed Zahran (mzahran@cs.nyu.edu)

Office hours: Mon 3-5pm (WWH 320)

Web page: http://cs.nyu.edu/courses/spring13/CSCI-GA.2250-001/index.html

Check the web page for updated information about the course, announcements, as well as the lecture notes. Each lecture note will be posted before the actual lecture day.

Goal:

After this course you should:
- Understand key operating system concepts
- Learn about linkers and loaders
- Understand the following concepts
  - Process scheduling and synchronization
  - Deadlocks and how to avoid them
  - Memory management
  - I/O and file systems

Basically you must be able to build a simple OS, or at least several OS modules, after this course.

Text:

Operating Systems: Internals and Design Principles (7th edition)
by William Stallings
ISBN 013230998X

Grading:
The grades will be assigned in the following basis:
- Homeworks   10%
- Labs   30%
- Midterm   25%
- Final   35%

Topics:

The emphasis in the course will be on understanding general concepts that are applicable to a wide range of operating systems, rather than a discussion of the features of any one specific OS.

The following topics will be covered in this course:
- Overview of operating system concepts
- Process and thread management
- Deadlocks
- Memory management
- File systems
- I/O

The labs consist of building several modules to test and study key operating system concepts. You can use C, C++, or Java for your project.

Feedback: I would like as much feedback/criticisms as possible from you, as early as possible, so that I can try to improve the way the course is taught. Please feel free to give me any suggestions (anonymously if you wish) that you think could improve the way the course is handled. Keep in mind that you are not alone. If you have a question, undoubtedly others do too; and we will all benefit from your input. Do not be shy to ask about anything you do not understand in the course.

Good Luck and Have fun!