Meeting time and place: Tuesdays/Thursdays 11am-12:15pm  WWH 109

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

Office hours: Tuesdays 2:00-4:00pm or by appointment (WWH 320)

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 be able to understand what happens under the hood when you computer executes programs. You will be able to visualize the big picture that shows how software and hardware are interrelated.

Text:

We will use the following book:


Grading:

The grades will be assigned in the following basis:

- Lab assignments  35%
- Homework assignments  10%
- Midterm exam  15%
- Final exam  40%

Goal:

The main goal of this class is to teach you how computers work under-the-hood to execute programs and manipulate data. The course will start with the C programming language, down to assembly and machine-level code, to basic operating system and architectural concepts.

Syllabus:

The following topics will be covered in this course:

- C programming language
- Assembly language
• Memory hierarchy
• Processes
• Virtual memory
• Concurrency

If you have a documented disability and wish to discuss academic accommodations with me, please contact me as soon as possible.

**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!**