COP 4338 - Programming III (Section U02)

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Syllabus

Instructor:

Ming Zhao, PhD
Office: ECS 363/265
Lectures: Mon/Wed 3:00PM-4:15PM in ECS 235
Office hours: Mon/Wed 2:00-3:00pm and 4:30-6:00pm
Email: ming@cs.fiu.edu

Course Objectives and Learning Outcomes:

The goal of this class is to learn C programming and familiarization with the UNIX environment. At the end of the class, students will be able to write substantial programs in C that use most of the available C functionality.

Course Topics:

We will cover topics in C Programming and introduction to UNIX systems including:

UNIX shell, compiling and linking, Makefiles, and debugging using gdb
Strings and Arrays
Standard Input/Output
Functions, Program Structure, and Control Flow
Process Address Spaces: Data, Heap, and Stack
Data Pointers and Function Pointers
UNIX System interface, System Calls, and Basic Process Management
Multithreading and Synchronization

We will learn by working on projects using Linux.

Course components:

This is an exclusively project based course.

5 Projects : 100% of grade (10%+20%+20%+20%+20%)

Class participation: 10% of grade

For details, including detailed requirements, deadlines and dates, please refer to the class Moodle page

Required Text:

The C Programming Language (2nd Edition)
Kerninghan and Ritchie

From the Provost's office:

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

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