COP-4338 Programming III
Fall 2011

FIU-SCIS Online (Moodle): COP4338FA11U01

Syllabus

General Information

- **Meeting Time and Place**: TR 14:00 - 15:15, ECS 134.
- **Instructor:** Jason Liu.
  - **Office:** ECS 261B.
  - **Phone:** 305-348-1625.
  - **Email:** liux@cis.fiu.edu.
  - **Web:** http://www.cis.fiu.edu/~liux/.
- **Teaching Assistant:** Rong Rong.
  - **Office:** ECS 261.
  - **Email:** rrong001@fiu.edu.
- **Office Hours (subject to change):** T/R 3:30 pm - 4:30 pm, Wed 1:30 pm - 4:30 pm, or by appointment.
- **Prerequisites:** both COP-3337 (Programming II) and COP-3530 (Data Structures), both with grades of C or higher.

Learning Objectives

Course Description:

The primary goal of this class is to learn C programming. At the end of the class, students will be able to write, run and debug C programs that use most of the available C functionality in an UNIX environment. The course will also cover advanced programming techniques, such as multithreading, networking, parallel programming, and interacting with other programming languages.

Course topics:

We will cover the following topics:

- Introduction to C, including functions, pointers, arrays, strings, structs, I/O.
- Programming in Unix environment, including Unix commands, shells, editing/compiling/linking programs, makefile, gdb.
- Advanced programming, including program structures, processes, control flow, and interaction with other programming languages.

- Advanced functions, including multiprocessing, multithreading, networking, parallel computing, etc.

We will learn by working on projects using Linux.

Textbooks

- *The C Programming Language (2nd Edition)*. Kerninghan and Ritchie. Prentice Hall, 1988. ISBN: 0131103628.
- We will also distribute necessary reading materials during the semester, which will be made available online.

Evaluation

This is an exclusively project based course. The course will consist of 5-6 projects that make up 100% of the grade.

Letter grades will be assigned based on overall percentage. The scale is as follows: A is 90% or higher, B is 80% or higher, and C is 70% or higher. + or - is done at 3.33% intervals, so A- is 86.67% or higher, B+ is 83.33%, etc. C- is 66.67% or higher. I reserve the right to change the method of assigning grades, including changing the number of assignments and weights of the assignments. **In no case will a curve be applied for this course.**

Policy

- Late submission for assignments will be accepted for grading with grade deduction. The calculation of the grade deduction is as follows. If submitted within 24 hours of the deadline (even if you're one second late), 15%; if submitted between 24 and 48 hours, 30%; if submitted between 48 and 72 hours, 50%; if submitted beyond 72 hours, 100% deduction. For example, if you get 90 for an assignment but you're late for two days, you'll receive 90*(1-30%)=63 for this assignment.
- Exceptions include legitimate, verifiable cases of illness or emergency, and observation of religious holy days. Other than emergencies, exceptions must be approved by the instructor well in advance.
- The best way to reach the instructor is through email. Even if during the office hours, it's still better to make an appointment beforehand so to secure a dedicated slot. **Please spell out your name and panther id when communicating with the instructor through email.**
- Various religious holy days occur throughout the academic year, so the instructor will work with students to ensure that no conflict exists between their religious obligations and their course work. You must let your instructor know prior to a holy day of restrictions that conflict with course attendance, homework submissions, and exams.
- 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.
- **CHEATING WILL NOT BE TOLERATED. Your work needs to be your own. It cannot be joint work with another student in the class or who previously took the class. THERE WILL BE ZERO TOLERANCE FOR CHEATING. You CANNOT give or receive code to and from your**

fellow students. You CANNOT pull code from the internet. If you get caught in cheating, you will immediately receive an F for this course and the Academic Misconduct will be reported to the university. NO EXCEPTIONS.