

CISC 3130, Spring 2013

Unix System Programming

Lecture: TF 10:00–11:15 am, at JMH 302

Instructor: Dr. Xiaolan Zhang

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Office Hours: 4-5pm Tuesday, 2:15pm-3:15pm Friday, and by appointment

Course Description: This course introduces important concepts in Unix operating system such as user/group, processes, scheduling, file systems, I/O etc. Students will learn standard Unix system utilities commands and shell scripting, and practice applying them to automate tasks and perform text processing. System programming (using system calls, library functions and other low-level interfaces) using C/C++ to perform file I/O, memory allocation, process creation and inter-process communication are studied and practiced via multiple programming projects including a final project. Prerequisites: CISC 1600, familiarity with C or C++.

Text:

1. Classic Shell Scripting (Arnold Robbins and Nelson H.F. Beebe, O'Reilly)
2. The Linux Programming Interface, A linux and Unix System Programming Handbook (by Michael Kerrisk, O'Reilly)

Website: all slides, handouts, and assignment will be posted on course website at:
<http://storm.cis.fordham.edu/~zhang/cs3130>

Grading:

- Written/Programming assignments (6-8): 45%
 - Midterm Exam(1/2 of semester): 20%
 - Final Project (due last class): 25%
 - Quiz /Attendance: 15%
- There will be occasional, possibly unannounced, quizzes, during the semester. Missed quizzes may not be made up (unless it is the result of an officially excused absence).

Policies:

- Class attendance is necessary. Attendance will be taken and unexcused absences will affect your grade.
- All assignments must be completed on time. Late class work will be accepted but with penalty. The only exception is when a note of doctor is presented.
- All the work you submit should be your own work. Copying of homework, or exams or “teamwork” on an assignment is not permitted. You can discuss with other students about the assignments, but the work must be your own. This means that you should write and test your own program. If you’re having trouble with an assignment, talk to the instructor.
- No incomplete is given for this course.