Syllabus (Spring 2016)

Contact Information:

Class Meetings: Tuesday, Friday, 9:45a.m.-11:00a.m., North Building C113
Office Hours: Tuesday, 3:30p.m., West Building W408
e-mail: adrianawise@yahoo.com (preferred), as810@hunter.cuny.edu

Course Materials:

Textbooks: *"Advanced Programming in the UNIX Environment"*, by W. Richard Stevens and Stephen A. Rago, 3rd edition, Addison Wesley, ISBN-13: 978-0-321-63773-4, ISBN-10: 0-321-63773-9
"Understanding UNIX/Linux Programming", by Bruce Molay, Prentice Hall, ISBN 0-13-008396-8

Software: For MacOS and Linux users, a terminal and C compiler. For Windows users, download cygwin from www.cygwin.com, making sure to enable the C compiler option during the installation. Alternatively, Microsoft Visual Studio.

Lab: Students can be given user accounts on the UNIX hosts in the 1000G lab of the Computer Science Department, on the 10th floor of Hunter North. This lab is open 24/7, and access to it is limited to Computer Science majors and students enrolled in selected courses. Students will also be able to use a secure remote login to access their accounts.

Prerequisites:

CSCI 340

Departmental Learning Goals:

- (1b) (understanding the relationship between computer architectures and software systems) by analyzing the relationship between kernel features and the machine architecture;
- (2c) (ability to apply principles of design and analysis in creating substantial programs and have experience working in teams on projects of moderately realistic scope);
- (3a) (ability to communicate ideas effectively) by requiring homework that is graded in part on clarity and proper use of English language.

Course Content:

1. Programming in the UNIX environment.
2. The UNIX API.
3. Processes, threads, signals, IPC, client-server programs.

Grading System:

Exams: There will be two term exams (midterm and final), worth 30% and 20%, respectively. The final may be replaced, per common agreement, with a presentation.

Homework: Between 5 and 10 programming projects, totaling 40%.

Attendance and participation: 10%.

Exceptions:

Exams: Absence incurs a zero grade, unless medically or otherwise emergency warranted. A reschedule of the exam will be agreed upon for all absent students if and when this happens.

Homework: Lateness by one week in handing in the homework incurs a loss of 50% off the grade. Lateness by more than one week means a zero grade.

Additional Course Materials:

Lectures: Will be posted on blackboard in PDF document and presentation (slides) format.

Homework: The same as for lectures. Homework assignments will be appended at the end of the lecture notes. Students are responsible for keeping track of homework completion. No separate homework list will be provided.

Academic Honesty:

Homework assignments and projects are individual, unless otherwise stated. Hunter College regards acts of academic dishonesty (plagiarism, cheating on exams, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The college will enforce the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

ADA Compliance:

In compliance with the *American Disability Act of 1990 (ADA)* and with *Section 504 of the Rehabilitation Act of 1973*, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities (emotional, physical, medical, learning). All students with documented disabilities should consult the *Office of AccessABILITY* in Room E1124 to secure accommodations. For further assistance, call (212)772-4857/TTY (212)650-3230.