

Time and location

MWF 12:20-13:10, Upson 205

Instructor

Riccardo Pucella (<http://www.cs.cornell.edu/riccardo>)

Office hours: Thursday, 15:00-16:00, Upson 5151.

Description

From the course catalog description: “A focus on Unix as a programming environment for people with a basic knowledge of Unix and experience programming in at least one language. Projects cover advanced shell scripts (sh, ksh, csh), Makefiles, programming and debugging tools for C and other languages, and more modern scripting languages such as Perl and Python.”

In practice, the plan is to spend two weeks discussing shell scripting for a particular shell (bash), one week discussing makefiles, and one week discussing Perl.

Course dates

COMS 214 is a four week, one credit, S/U only course. It runs February 17 to March 14, 2002. The drop deadline is February 24, one week into the course.

Prerequisites

The course prerequisites are a programming course (COMS 100) and an introductory Unix course (COMS 114), or equivalent.

Grading

There will be three homeworks, and a passing grade for the course will involve doing all three homeworks and getting at least 50% of the total grades.

Resources

The web site for the course is <http://www.cs.cornell.edu/Courses/cs214/2003sp/index.html>.

The newsgroup for the course is *cornell.class.cs214*.

You will all be provided with accounts on the Computer Science Undergraduate Lab Unix machine *babbage.csuglab.cornell.edu*. The CSUG Lab is located on the third floor of Upson Hall, and the fourth floor of Rhodes Hall.

Books

The following books are useful, given the content of the course:

- UNIX Shells by Example, (2nd ed), E. Quigley, Prentice Hall, 2000. An excellent survey of the available shell families; covers both interactive and scripting uses.
- UNIX in a Nutshell, A. Robbins, O'Reilly, 1999. A good reference for UNIX in general.
- Programming Perl, (3rd ed), L. Wall, T. Christiansen, and J. Orwant, O'Reilly, 2000. The classic introduction to Perl.

All books are optional. I'll try to work from online sources as much as possible.

Schedule (subject to changes)

M 2/17	Introduction	
W 2/19	Bash and scripting	
F 2/21	Conditionals and looping	HW#1 goes out
M 2/24	Functions	
W 2/26	Case and arithmetic expressions	
F 2/28	TBA	HW#1 due, HW#2 goes out
M 3/3	Introduction to make	
W 3/5	Variables, phony targets	
F 3/7	Static pattern rules	HW#2 due, HW#3 goes out
M 3/10	Introduction to perl	
W 3/12	Regular expressions, input and output	
F 3/14	Arrays	HW#3 due