COMP 171: Scripting Language Practicum (Section 001)  
Fall 2006 Course Information & Syllabus

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Lectures: Monday 1:40–2:30 pm in DH-339.  
Sometimes lecture notes or a summary may be available on the web. Other than that, if you have to miss a  
class, get notes from another student; mine are typically pieced together from more than one place with a lot  
of metacommants, which makes it hard for anybody but me to follow them. Also get copies of any missed  
handouts (available on the web site). The handouts are numbered sequentially, starting with handout 0. On  
handout 0, you need to fill in some information and return it to me promptly so you can be on the email list  
and get access to the web site for the course.

Office Hours: In DH-225: 11:15am–12:30 pm on Monday and Wednesday.  
These are the guaranteed times to find me except as announced in advance. You should also feel free to look  
for me at other times or make appointments.

Course Objectives: The purpose of this course is twofold: (i) to provide a painless introduction to  
programming computers, and (ii) to serve as a basis for programming in applied disciplines such as biology,  
chemistry and business. Traditionally, programming languages can be categorized as compiled or interpreted  
as also typed or typeless (actually more- or less- typed). Scripting languages usually fall into the category  
of interpreted and less-typed. Scripting languages owe their speed of development to close tie-ins with  
native operating system libraries. Popular scripting languages include all of the Unix shell scripts (csh, tcsh,  
zsh etc.), Tcl/Tk, MS-DOS command language, Perl, Python, etc. Lately Perl and Python have become  
popular due to their simplicity, expressiveness and applicability to various scientific and business domains.  
After taking this course, students should be able to: 1. Understand what scripting languages can do and  
when they are suitable for use. 2. Program in Perl. 3. Program in Python.

Prerequisites: None (but facility with basic high school mathematics is expected).

Perl How to Program.  
Prentice-Hall, 2001. (Cover also notes “Introducing CGI and Python”.)

Course Requirements: There will be several homework assignments, a midterm, and a final. The weight-  
ings within the semester grade will be: Homework 45%, Midterm Exam 20%, and Final exam 35%.

Homework: Only homework turned in by the due date is guaranteed to be graded. Any special circumstances  
that cause difficulty in meeting the deadlines should be brought to the attention of the instructor in advance.  
Homework must be handed in at the beginning of class, since solutions may be discussed in the  
same class on occasion. Homework turned in to my mailbox will generally not be graded, since I do not  
check the box continually and cannot generally verify that homework was turned in before solutions were  
discussed in class. If you cannot turn in homework in person, you should put it under the door of DH-225.

Exams: The midterm exam, tentatively scheduled for week 5 is 50 minutes long. The final exam is scheduled  
for 1:00–3:00 pm on Monday, December 18.

Collaboration: No collaboration is permitted on exams. Collaboration on homework is acceptable, but  
copying is not! (Safeguard your files and printouts.) You may discuss solution techniques with other students,  
but you must write up your solutions independently. If you obtain a solution through research, e.g., in the  
library, credit your source and write up the solution in your own words.
Tentative Course Outline and Approximate Schedule:

The current plan is to cover selected portions of the following chapters of the text according to the schedule shown.

2. (9/11) Chapter 3.
3. (9/18) Chapter 4.
5. (10/2) Exam I on Chapters 1–5.
8. (10/30) Chapter 8.
11. (11/20) Chapters 11 and 12.