

# CS 1520 / COE 1520: Programming Languages for Web Applications (Fall 2007)

Department of Computer Science, University of Pittsburgh

**Course Reference Number (CRN):** 10772

**When:** Tuesdays & Thursdays, 9:30 am – 10:45 am

**Where:** Room 5502, Sennott Square Building

**Instructor:** Prof. Alexandros Labrinidis

Email: labrinid@cs.pitt.edu

Web: <http://www.cs.pitt.edu/~labrinid>

Office: 6105 Sennott Square

Phone: 412-624-8843

Office hours: Tuesday: 10:45am - noon

Tuesday: 2:15pm - 3:00pm

Thursday: 10:45am - noon

Thursday: 2:15pm - 3:00pm

**Recitations:** (first one will be on Friday, September 7th)

Friday 9:00am - 9:50am @ 6110 Sennott Square (CRN 11691)

Friday noon - 12:50pm @ 6110 Sennott Square (CRN 11692)

**Graduate Teaching Assistant:** PJ Dillon

Email: cs1520-staff@cs.pitt.edu

Office: 6804 Sennott Square

Phone: 412-624-8456

Office hours: Monday: noon - 2pm

Friday: 10am - noon

**Undergraduate Teaching Assistant:** Tim Hirsch

Email: cs1520-staff@cs.pitt.edu

Office: 5712 Sennott Square

Office hours: Monday: 10am - noon

Wednesday: 10am - noon

**Course Description:** This course will explore various programming paradigms that are used when building web applications. Emphasis will be given on reusing existing components/libraries rather than building systems from scratch. This course will cover Perl, PHP, JavaScript and AJAX. The goal of the course is to expose students to a spectrum of web programming paradigms through lectures and hands-on project experience.

**Prerequisites:** A grade of C or better in CS 0445 is required (or permission of the instructor). Familiarity with Unix and HTML are assumed.

**Class Web Page:** <http://db.cs.pitt.edu/courses/cs1520/fall12007>

All handouts and class notes will be published on the class web page. You are expected to check this page frequently (at least twice a week). The instructor's home page will also have a link to the class web page.

**Textbook:** *Programming the World Wide Web, 4th Edition*, by Robert W. Sebesta. (c) 2008 Addison Wesley  
ISBN-10: 0321489691 / ISBN-13: 9780321489692.

**Reference:** Numerous reference books/chapters will be given throughout the term, mostly through O'Reilly's *Safari Bookshelf* for which the University has institutional access (i.e., you will not have to buy extra books).

**Course Grading:**

|                       |     |  |
|-----------------------|-----|--|
| Assignments & Quizzes | 50% | There will be 4-5 <b>assignments/projects</b> , all of which will have a significant programming portion. All have equal weight.       |
| Midterm Exam          | 25% | Thursday, October 11th, 9:30am – 10:45am (SENSQ 5502)  |
| Final Exam            | 25% | Thursday, December 13th, noon – 1:50pm (SENSQ 5502)<br>The final exam will cover <b>all material</b> , from the beginning of the term. |

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**Note on Email Communication: (NEW - please read carefully!)**

You should send all email regarding class matters to **cs1520-staff@cs.pitt.edu**. Your email will go to the instructor, the graduate TA and the undergraduate TA. If you have a confidential matter, then please email the instructor directly, but make sure to include the keyword `cs1520` in the subject line of your email messages. We will make every effort to respond to all email requests within one business day at the latest. **Due to spam filtering, you should always use your pitt email address when sending email.**

**Class Mailing List:** All students must subscribe to the class mailing list, so that they receive time-sensitive information from the instructor and TAs. You will be automatically added to the mailing list.

**Grading Policy:**

Unless explicitly noted otherwise, the work in this course is to be done independently. Discussions with other students on the assignments should be limited to understanding the statement of the problems (except when assignments are to be done in groups in which case it is expected of members of the same group to work together). **Cheating in any way, including giving your work to someone else, will result in an F for the course and a report to the appropriate University authority.** Submissions that are alike in a substantive way will be considered to be cheating by ALL involved parties. Please protect yourselves by only storing your files in private directories, and by retrieving all printouts promptly.

**All assignments must be submitted electronically.** Grades can be appealed up to two weeks after they have been posted; no appeals will be considered after that time.

**Late Policy:** A late assignment will receive a deduction of 5 points if it is up to one day past the deadline and 15 points if it is up to two days past the deadline. An assignment which is more than 2 days late will be accepted *only* under special circumstances; the instructor will determine the penalty in a fair manner.

**Make-up Policy:** Students are expected to be present for all exams and quizzes. Make-up exams will only be given in the event of an emergency, and only if the instructor is informed **in advance**. Failure to notify the instructor prior to missing an exam will result in a zero for the exam.

**Students with Disabilities:**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and Disability Resources and Services, 216 William Pitt Union, 412-648-7890 or 412-383-7355 (TTY) as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course. Their web site is <http://www.drs.pitt.edu>.

**Religious Observances:**

In order to accommodate the observance of religious holidays, students should inform the instructor (by email) of any such days that conflict with scheduled class activities **within the first two weeks of the term.**

**Outline:**

A detailed reading guide will be published on the web page, along with the class notes and additional online articles and resources. Time permitting, we will cover the following topics:

1. introduction to Internet technologies
2. review of HTML / XML
3. Perl / Regular expressions
4. PHP
5. Quick introduction to SQL
6. JavaScript / AJAX
7. Ruby / Rails

[Last updated on August 30, 2007 at 8:57am EST]