CSCI-UA.61-1 Web Development and Programming
Professor Deena Engel, Spring 2014

Syllabus

- Class hours: Mondays and Wednesdays 12:30 -1:45 PM, WWH Room 317
- Office Hours: Tuesdays 2:00 - 3:30 PM; Wednesdays 10:30 AM - noon; and by appointment
- Tutoring Hours: We are fortunate to have Philip as our Lab Tutor for this course. Tutoring hours will be held at **Fourth Street Lab**. The ITS lab is at 35 West Fourth Street,2nd Floor
- Tutoring hours will begin on Wednesday, 2/5/2014 and are as follows:
  - Mondays 5:00 -8:00 PM
  - Wednesdays 5:00 -8:00 PM
  - Friday 12:00 - 4:00 PM: E-tutoring and Skype - please contact Philip the following email address on Fridays only: **s400611t@cs.nyu.edu**
- Exam Schedule:
  - Midterm Exam: Wednesday 3/12/2014 in class
  - Final Exam: May 14, 2014 12:00PM - 1:50PM CIWW 317

*CSCI-UA.61 can be used as one of the four courses which make up the **Web Programming and Applications Minor**.*

This course provides concrete knowledge in popular web technologies and programming. Students will develop interactive, secure and powerful projects for the web. The course will cover client and server side technologies for the world wide web. Topics covered are:

Foundations The course begins with an overview of the foundations of building interactive web sites with a review and overview of xHTML, along with topics in advanced CSS. We will also review UNIX. In addition, throughout the semester, we will address issues specific to building large websites; incorporating multi-media; building multi-lingual websites and other important aspects that will be relevant to your work both in this course and in the future.

JavaScript JavaScript is a semi-object-oriented scripting language for creating dynamic and interactive content for the world wide web. We will write javascript programs to validate forms, perform browser checks, create cookies and other functions. We will also use the Document and Browser Object model (DOM) to manipulates elements of the design such as images, text and cascading style information to create dynamic web sites.

PHP PHP is another popular methodology to create interactive web sites This class covers many aspects of PHP programming including programming fundamentals, pattern matching & regular expressions, file manipulations and more. Students will develop interactive, secure and powerful sites for the web.

Help:

If at any time you feel that you are falling behind or are overwhelmed by the material, let me know: I will be very happy to help you.

Prerequisites:

For non-majors: Web Design and Computer Principles (CSCI-UA.0004) or equivalent and *Introduction to Computer Programming* (CSCI-UA.0002) or one semester of programming in Java, Python or an equivalent programming experience such as in C.
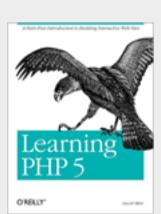
Required TextBook:

PHP, Mysql,JavaScript, & CSS
By Robin Nixon
Publisher: O;Reilly
http://shop.oreilly.com/product/0636920023487.do
Publication Date: September 3, 2012, Second Edition
ISBN-10: 1449319262 |
ISBN-13: 978-1449319267

Optional TextBooks:

Learning PHP 5
By David Sklar
Publisher: O'Reilly Media
Formats: * Print * Ebook * Safari Books Online
Print Release: June 2004 ; Ebook: December 2008
Ebook Release: December 2008
Print ISBN: 978-0-596-00560-3 | ISBN 10: 0-596-00560-1 Ebook ISBN: 978-0-596-15970-2 | ISBN 10: 0-596-15970-6

Available from Safari On-Line at the Bobst Library: **http://ezproxy.library.nyu.edu:28725/0596005601** [off-campus]
http://proquestcombo.safaribooksonline.com/0596005601

Learning JavaScript - Second Edition
By: Shelley Powers
Publisher: O'Reilly
Formats: * Print * Safari Books Online
Print Release: December 2008
Print ISBN: 978-0-596-52187-5 | ISBN 10: 0-596-52187-1
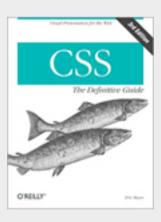Ebook ISBN: 978-0-596-15734-0 | ISBN 10: 0-596-15734-7

CSS: The Definitive Guide, Third Edition
By Eric A. Meyer
Publisher: O'Reilly Media
Released: November 2006
Print ISBN: 978-0-596-52733-4 ISBN 10: 0-596-52733-0
Ebook ISBN: 978-0-596-15940-5 ISBN 10: 0-596-15940-4

The Second Edition is available from Safari On-Line at the Bobst Library: **http://proquestcombo.safaribooksonline.com/0-596-00525-3**

Help Options:

Whenever you have a question about the course material, please feel free to drop by during my office hours or write me an email message. If at any time you feel that you are falling behind or are overwhelmed by the material, let me know and I will be very happy to help you.

Homework Policy:

- Ten percent of the grade will be deducted for each week late, with a possible maximum deduction of 30%.
- Homeworks will not be accepted past the third week after their due date without the instructor's permission.
- You should save all of your programs and back them up or store copies of the files for the entire semester.
- Programming style counts (that includes using meaningful names for variables and files; and providing sufficient comments in the body of the programs.)
- You may submit *one* homework up to one week late without penalty. In that case, please be sure to advise the instructor before the due date & time (midnight of the due date) that you will be using your "freebie extension".

Cheating:

For the purposes of this class, cheating is defined as:

- Discussing homework concepts is fine, but you must submit your own work.
- Copying all or part of another student's homework, project or exam.
- Allowing another student to copy all or part of your homework, project, or exam.
- Please note that If you are caught cheating, you will receive an immediate FAILURE for the course.
- Make sure to read the **CS department statements on Academic Integrity** for more details and let me know if you have any questions.

Grading:

This course will require one mid-term exam (20% of the final grade); one final exam (20% of the final grade); and approximately 5-6 additional assignments (accounting for 60% of the final grade).

Unix account:

All students will be assigned a UNIX account on a university webserver for this class to use for their own web sites.

Software:

The primary software for this course will be available on the webserver that we use in class. Any additional software that you need (e.g. Adobe's *Photoshop)* will be available to you at no cost through the **ITS computer labs.**