ITMD 461 – Internet Technologies and Web Design

Fall 2014 Syllabus

Time and Location:
Wed 6:25pm – 9:05pm
Main Campus, Chicago
Perlstein Hall(PH) 131

Instructor:
Brian Bailey

Contact Email:
bbailey4@iit.edu

Office Hours:
Before and After Class or by email
In person by appointment
Others TBD

Course Description:
This course is an introduction to internet and web technologies with a focus on front-end web development. This is a beginning course on web development, not a design course. We will focus on the technologies used to build modern web pages. The core technologies include HTML, CSS and JavaScript. We will also discuss other applicable technologies and topics throughout the course as time permits such as frameworks, preprocessing, api's, mobile strategies, image optimization, content management, and an introductions to server-side back-end development.

Course Objectives: Students completing this course will be able to:
- Recognize HTML, CSS and JavaScript mark-up and code in a web page/application.
- Select the proper mark-up tags or code to achieve a particular result.
- Identify improperly used mark-up and code.
- Produce modern standards compliant web pages.
- Deploy web pages to a public server.

Course Outcomes: Each successful student will be able to:
- Explain the client and server architecture of the Internet and related web technologies.
- Use a basic text editor and other software tools to create web pages using HTML, CSS, JavaScript, jQuery, images, graphics.
- Deploy web pages to a Linux-based web server using sftp.

Textbook:
Title: **Learning Web Design, 4th Edition** (4th edition is important – not 3rd edition)
By: Jennifer Niederst Robbins
Publisher: O'Reilly
Media Formats: Print, Ebook, Safari Books Online
Print: August 2012 Ebook: August 2012
Pages: 624
Print ISBN:978-1-4493-1927-4 | ISBN 10:1-4493-1927-0
Ebook ISBN:978-1-4493-3753-7 | ISBN 10:1-4493-3753-8
Book Website: http://www.learningwebdesign.com/
http://shop.oreilly.com/product/0636920023494.do
http://www.amazon.com/Learning-Web-Design-Beginners-JavaScript/dp/1449319270/ref=sr_1_2?ie=UTF8&qid=1344824699&sr=8-2&keywords=learning+web+design

Other resources will be provided on Blackboard throughout the course.

Tentative Course Schedule *(subject to change based on course progress)***:**
Aug 27 – Week 1. Introduction / Focus on Underlying Technologies / HTTP Request/Response - (Read thru Chapter 3)
Sept 3 – Week 2. Underlying Technologies Continued – Overview of HTML, CSS, JavaScript – (Start Reading Part II, Chapter 4)
Sept 10 – Week 3. HTML – Markup Basics – (Read Chapters 5-7)
Sept 17 – Week 4. HTML – (Read Chapters 8-10)
Sept 24 – Week 5. HTML – (Finish Reading through Chapter 10, Start Reading Part III)
Oct 1 – Week 6. CSS – Markup Basics – (Read Chapters 11-18)
Oct 8 – Week 7. CSS – Selectors, Rules and Properties – (Read Chapters 11-18)
Oct 15 – Week 8. CSS – Layout - (Read Chapters 11-18)
Oct 22 – Week 9. CSS – Layout and advanced usage – (Finish Reading through Chapter 18)
Oct 29 – Week 10. JavaScript – Language Basics – (Read Chapters 19-20)
Nov 5 – Week 11. JavaScript – Google Maps API
Nov 12 – Week 12. JavaScript/jQuery
Nov 19 – Week 13. JavaScript/jQuery
Nov 26 – Week 14. No Class – Thanksgiving Break
Dec 3 – Week 15. Additional topics — design, apis, haml, sass, less, coffee script, image optimization
Dec 10 – Week 16. Finals Week/Final Project (no class)

Assignments & Grading:
The only way to learn the concepts presented in this class is to work with them. There will be various assignments throughout the course and the number will depend ultimately on what we get to cover. Most of the assignments will be smaller and deal with a specific area we discussed during the lecture. There will be a mid-term exam and a final project.

I tentatively expect there to be small assignments each week based on what we cover in the lecture and/or small multi-week projects, a midterm exam worth 100 points and a final project worth 100 points. ***This is subject to change based on what we cover and how we progress in class.*** Any changes will be clearly communicated with the students.

Points will be deducted for various reasons including non-functioning code, poor mark-up, obsolete elements, invalid markup/code or non-validating markup/code, improper use of JavaScript, obvious copy and paste of old website code, quality of work, and not following methods discussed in class.

Assignments will be given with plenty of time to complete the work. ***In general late work is not accepted and work turned in after the due date will receive a grade of 0***. Work that is turned in slightly late **may be** accepted with a **minimum** of a 15% penalty.

See student handbook for grade percentage to letter grade table for undergraduates vs graduate students. Graduate level students can not receive a D letter grade for the class and get credit.

Assignments will be graded according to the following guidelines. They will be graded on completeness of the requirements and quality of work. In order to receive an "A" you would need to fulfill all the requirements and show a high quality of work that in general is above average. **No student should expect an "A" for just satisfying the basic requirements of the assignments**. Please review this guidelines and understand the general grading guidelines.

Grading Guidelines
A – Outstanding work reflecting substantial effort   90-100%
B – Excellent work reflecting good effort 80-89.99%
C – Adequate work meeting minimum expected requirements   70-79.99%
D – Substandard work not meeting reasonable expectations 60-69.99%
E – Unsatisfactory work   0-59.99%

Technology Requirements:
All of the work for this class can be done on virtually any computer, Windows, Mac or Linux. You must be able to edit plain text files and also upload files with an sftp application. There is no paid software you will need in this class. There are commercial products you may use but free or open source alternatives will be discussed and suggested.

You should be familiar with how to use your computer and edit and save files into different folder structures. You will need to understand the folder/path structure your files are saved in and be able to transfer files using an FTP program. We will discuss applications you may use for this class.

Videos / Online Students / Missing Class:
Please attend class every week. If you miss a class or are an online student, there are other ways to receive course material.
1. Come to class (attendance will be taken for students registered in the live class)
2. IIT online videos found in Blackboard under the "IIT Online" link in the menu on the left side of the screen. Usually available about 24 hours after class.
3. Screencast videos recorded from my computer screen. These will be posted to Blackboard under the "Screencasts" link in the menu on the left side of the screen. These videos will be fairly large downloads but will offer a higher quality view of my screen.

Academic Honesty:

It may seem very easy to copy code from other websites and use it. While you may feel a sense of accomplishment by completing an assignment on time, you will have wasted your time, my time, experience that you could have gained in this field, and preparation for a career. Jobs in the IT industry are not handed out because you have a piece of paper. Chances are, I will notice that you could not have possibly written what you turned in, and I am pretty good at locating the source of your copy-paste job. This happens when students do not have a fundamental understanding of what they are copy and pasting.

Students who cheat by copying and pasting code from other people without proper copyright attribution will have their grade substantially lowered. Students who turn in entire files with copyrights will be asked to redo work on their own and receive a grade of 0 on the assignment until the work is redone. Please avoid these problems by doing work yourself.

Students who plagiarize other students work or the work of others on the internet will be subject to the IIT policy on Academic Honesty in the Student Handbook. This usually would result in a 0 for the assignment and an academic honesty report being filed with the University. Do not copy work from any other student or directly off the internet!

Please read the ITM Student Handbook to review the departments policies on plagiarism and identical or substantively identical work that I must follow.

ADA Statement:
Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor), telephone 312 567.5744 or disabilities@iit.edu.