

CIS 2336
Internet Application Development

YEAR COURSE OFFERED: 2018

SEMESTER: Fall 2018

DEPARTMENT: College of Technology, ILT

COURSE NUMBER: CIS 2336

NAME OF COURSE: Internet Application Development

NAME OF INSTRUCTOR: Kamil Khanipov

Internet Application Development

Overview

This course is an introduction to Internet Application development. This introduction includes both client and server side technologies. Client side technologies include HTML for structure, CSS for presentation and Java Script for interactivity. Server-side technologies include PHP for middleware and MySQL for dynamic web applications. The course combines conceptual knowledge with hands-on experiences. Given our time constraints, it will not be possible to become an expert with each technology. Though, it will be possible for each student to demonstrate a 'Hands On' understanding of Internet Application Development. By design, this course provides a foundation for more in depth learning and prepares students to do well in future classes and projects.

Since Computer Information Systems, as a discipline, contains both technical and business attributes, the course is structured to provide students with the opportunity to reflect on the business context for web applications. Within this context, students are expected to understand that, while Internet technologies are interesting in themselves, in an organizational context, they can also make a significant contribution toward organizational goals.

Learning Objectives

At the end of this course, you will be able to:

1. Compare, contrast, and demonstrate static and dynamic Web sites.
2. List and explain significant relevant standards organizations including the Internet Society and the W3C Consortium.
3. Using a simple text editor, create a web page, upload it to a web server, access it with a browser.
4. Create and apply a CSS style sheet.
5. Demonstrate and explain the purpose of client side scripting with JavaScript.
6. Name and explain the predominant client side scripting technology.
7. Design, develop and deploy a simple web site with static content and interactive elements utilizing HTML5, CSS, JavaScript and other technologies.

8. Apply JavaScript events to the Document Object Model (DOM) to create dynamic web pages.
9. Explain the purpose of server side programming technologies including MySQL.
10. Write simple SQL queries that retrieve data from multiple tables in an online relational data base.
11. Create an online MySQL Database.
12. Write, and publish, a web application that dynamically updates and queries an online MySQL database.

Textbooks

Ullman, PHP and MySQL for Dynamic Web Sites, Fourth Edition, Peachpit Press, Berkeley, CA, 2012, ISBN-13: 978-0-321-78407-0, ISBN-10: 0-321-78407-3

Text readings supplemented with selections from current Academic Journals, Safari Online, and other relevant sources.

Note: In class, instructor will provide each student with web site access codes.

Grading

Final grades determined through a weighted average that is projected to include examinations, “Hands On” Activities, projects, and an online class Portfolio. Portfolio sections will include multiple sections including an “Assignments” section and an external links section, as well as related materials.

- 2 Exams **30%**
- Portfolio Project: website **40%**. Final grade for project would be given in the end of semester
- Homework/Participation (**30%**) will be given for each class. Due to big number of students in the class, I will not be able to grade your Homework on weekly basis. All Homework must be submitted anyway using Drop Box. Grader will pick up work for grading randomly. Not submitted work gives to you automatic zero. Submitting collaborated work will give to you automatic zero and report to department chair. Submitting “fake” work will give to you automatic zero and your work will be graded weekly. Attendance is not recorded, but expected. Final Project will be given as Homework and would be graded as Homework and in the end of semester as a Final Project
- Any homework, class work, exams or prerequisite submitted late or to wrong Drop box folder will not be accepted. If you are late or messed up submission folder – you have couple of choices: forfeit grade, or if time still permit submit work to right folder or come to my office during office hours and explain situation no later than one week after problem occurred. I will decide on each case individually to accept or reject, and I will post grade immediately.
- Eventually, grader will grade all work and post grades to Blackboard.

Office hours: Blackboard or UH e-mail or by Appointment

E-mail: kkhanipo@Central.UH.EDU

Teaching Hours:

CIS 2336

Monday 7:00 PM - 8:30 PM

Projects, Assignments, and Activities

Class participation, the active engagement in questions and answers, taking part in analyses and assignments is expected from all students. In each class, there may be participatory “Hands On” assignments. Only students present in that class can participate in the participatory assignments.

Hybrid Class Attendance

Attendance is expected at all class meetings. As expected in a hybrid class, there will be regular (weekly) assignments. These assignments will include readings as well as active assignments. Often times, these assignments will be distributed in class. Any content covered in an assignment, such as a video, should be considered testable.

Exams

As specified in the class schedule, there will be only two exams. Since makeup exams are **not** an option, anyone that is not confident of being present for the exams should consider dropping. Note also that while makeup exams are not a possibility, for students, such as those unexpectedly called up for military duty, early exams can be arranged. Even though I am not in favor of multiple choice exam – some exams (whole or partially) would be given as multiple choice option.

Final Project

Final Project is most important and time consuming activity for the semester. Its meant to be completed during entire semester, that why it would be graded on every week basis. Even your project in the end of semester will shine, you might get low grade for it, as I grade your work during or before class

Class Interruptions

During class, mobile phones and pagers should have their audible alarms turned off. Failure to observe this rule demonstrates a lack of respect for your classmates. Repeated failures will be asked to leave the class

Counseling and Psychological Services (CAPS)

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. Also, there is no appointment necessary for the “Let's Talk” program, which is a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html.

	In the classroom Submission at the beginning each class	What to do What to submit
Week #1 Aug 20, 21	Please print syllabus and schedule from Blackboard CodeCademy.com: Introduction to HTML, Build your own Webpage, HTML Basics II, HTML Structure: Using Lists, HTML Structure: Tables, Divs, and Spans CodeCademy.com	What to do Go to www.CodeCademy.com : Create account and complete profile with picture Find Learn HTML and Learn CSS Complete course Learn HTML (3 hours).

Week #2 Aug 27, 28	In class: Overview of HTML CodeCademy.com Introduction to CSS, CSS selectors, Classes and id's, CSS Element Positioning Setting up Development server	What to do Find the course: Learn CSS (11 hours) from CodeCademy.com Complete Part 1 and Part 2(Selectors and visual rules and The Box Model)
Week # 3 Sep 3, 4	Introduction to On-line Learning Portfolio I am using this week to create Hostgator accounts. Cpanel Overview, Web Site Structure	What to do Learn CSS CodeCademy.com: complete Parts 3 -6.
Week #4 Sep 10, 11	Liquid CSS Design: 1, 2 and 3 columns Online Website Creation (HostGator) and transferring to HostGator	What to submit: Two separate grades: Learn HTML and Learn CSS. Both Must be completed 100% Submit as screenshot of all budes or percentage with Last Name on the image before class
Week # 5 Sep 17, 18	Remote Class Introduction to Liquid CSS Design: 1, 2 and 3 columns	What to submit: Homework 1: submit your first webpage as HTML and CSS codes to Blackboard drop box before class.
Week #6 Sep 24, 25	Creating Dynamic websites	What to do: Go over posted information. Review.
Week #7 Oct 1, 2	EXAM 1 over HTML and CSS	What to submit:
Week #8 Oct 8, 9	Hostgator. Adding webpage to Hostgator	What to do Create second navigation button: SQL Learn SQL CodeCademy 100% graded next class

Week #9 Oct 15, 16	Introduction to MySQL and SQL Database Design	What to submit: Learn SQL 100% as a link to web page. Submit to drop box as a PDF screenshot
Week #10 Oct 22, 23	Web Application Development with adding JavaScript handling in HostGator Final Project: Learning Portfolio website with third navigation button: Java Script	What to do Introduction to Java Script CodeCademy Part 1 and 2
Week #11 Oct 29, 30	Web Application HTML Forms and JavaScript Validation	What to do Introduction to Java Script CodeCademy Part 3 and 4
Week#12 Nov 5, 6	Web Application Client vs Server Side Development Creating a form and saving data to a MySQL DB	What to do Introduction to Java Script CodeCademy Part 5 and 6
Week#13 Nov 12, 13	Web Application Retrieving data from a database	What to do Introduction to Java Script CodeCademy Finish
Week#14 Nov 19, 20	Exam 2: On Hostgator Java Script	What to submit: CodeCademy JavaScript 100% as PDF screenshot on drop box
Week #15 Nov 26, 27	Final Portfolio Presentation: Oral Final Part 1	What to submit: Submitting portfolio on Hostgator and Blackboard with all 3 navigation buttons and all linked activity completed ever in the class or at home
Week # 16		Final Exam not offered

