CIS 2336

Internet Application Development

YEAR COURSE OFFERED: 2019

SEMESTER: Fall 2019

DEPARTMENT: College of Technology, ILT

COURSE NUMBER: CIS 2336

NAME OF COURSE: Internet Application Development

NAME OF INSTRUCTOR: Instructional Assistant Professor Natalia Fofanova

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 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

Jennifer Kyrnin and Julie C. Meloni
Sams Teach yourself. HTML, CSS, and JavaScript All in One
By Pearson, 3d edition.
ISBN: 978-0-672-33808-3
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 **20%** Plan to attend. There is no make up for Exam.
- Portfolio Project: website **30%.** Final project (Portfolio) meant to be completed over entire semester. Final Project will be given as Homework and would be graded as Homework and in the end of semester as a Final Project. Final Project must be submitted by midnight April 17 by Blackboard, using drop box. Project will be graded as a website using your URL. Do not change the project after midnight April 17 as grader will be comparing code with Blackboard submission.
- Homework **(25%)** 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. Final Project will be given as Homework and would be graded as Homework and in the end of semester as a Final Project
- Participation/Class work **(25%)** will be recorded and graded. Participation/attendance work must be done in the class and submitted to instructor during class. Class work is not accepted at later date. Attendance and class participation recorded at the beginning of class. All grades are given in the end of class.
  All classes required to attend, but During "red" days grade will not be recorded if class missed.
- Any homework, class work, exams or prerequisite submitted late or to wrong Blackboard's 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.

Office: TECH 335
Telephone: 713-743-2852 (use only during my office hours)
Office hours: Tuesday 2:30 – 5:30 PM in Office TECH 335
Wednesday 4:00 - 5:30 in Office TECH 335
Or via Blackboard or UH e-mail

E-mail: nfofanova@uh.edu

Teaching Hours:
CIS 2336 and CIS 2348 T2-100
Tuesday 1:00-2:30; 5:30-7:00 PM
Wednesday 1:00-4:00; 5:30-7:00 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

Schedule is tentative and will be changed almost each week. Check Blackboard often

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.