School of Applied Engineering and Technology
Syllabi

NJIT Syllabi

Fall 2019

CPT 330-101: Software Web Applications I

Ersal Aslam

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Course Description

Course Title: CPT 330 – Software Web Applications I

Course Description: This course will focus on online collaboration strategies. The course will cover the design and creation of websites with the intent to deliver and receive information in an efficient manner. Students will be required to create online projects that encourage and facilitate interaction and team-building in the online environment.

Course Date: Sept 3 – Dec 12, 2019

Instructor Information

Name: Ersal Aslam

Office location: 443 Fenster Hall

Phone: 973-596-5303

E-mail: njit.aslam@gmail.com

Office Hours: By appointment.

Prerequisites

Requirements: Students must have a basic understanding of Internet-based computer skills.

Podcast Lectures

Required listening: Site: http://canvas.njit.edu

Topics Covered

Lectures:
1. Getting Started with HTML5
2. Getting Started with CSS
3. Designing a Page Layout
4. Graphic Design with CSS
5. Designing for the Mobile Web
6. Working with Tables and Columns
7. Designing a Web Form
8. Enhancing a Website with Multimedia
9. Working with XHTML
10. Getting Started with JavaScript

Outcomes

Course Outcomes: By the end of the course, students should be able to:
- Create websites from scratch, hand-coded with the latest HTML5 standards.
- Style and design websites using the latest CSS3 standards.
- Understand responsive web design and demonstrate mobile-compatible projects.
- Build mechanisms for collaboration and feedback using forms.
- Produce multimedia elements to enhance/supplement website content.
- Demonstrate knowledge of web compliance and accessibility.
- Upload files to a web server.

Assignment Postings

Requirements: Assignment postings are required of all students. Actively participating in class discussion is one of the best ways to help build a sense of community.

You are expected to not only to post your assignments, but also provide feedback and assistance on your peer's postings and work. Consequently, **60%** of your final grade depends on your ability to complete assignments by their due date.

Textbooks

Required reading: *New Perspectives HTML5 and CSS3: Comprehensive 7th Edition*, Carey, Patrick, 2017. ISBN-10: 1305503937

Hardware and Software

Required Software: Students are required to download and install a number of programs for this course. I have tried to identify shareware/open source applications so that you don't have the burden of purchasing expensive software.

If you already have a program that you are familiar with that is similar to one of the items listed below then you should feel free to use the item you already have.

- **VLC** –Used for listening to the course lectures
- **HTML5 Browser –** Firefox, Safari, Chrome (Internet Explorer not acceptable)
- **Basic Text Editor –** Notepad, EditPad, TextEdit, etc
- **SSH Client** – FileZilla, SSH Secure Shell or similar SFTP capable client

Required Hardware: **Computer** – You will need to have a computer with access to the Internet. PC or Mac. Other platforms may be used, but without support. NJIT makes provides access to computers with all the required software and hardware needed for this course in all of the public computing labs.

Late Assignments

Requirements: Late assignments are not accepted and will receive a failing grade unless prior arrangements are made. If there is an emergency, I may be reached at either my office or by e-mail.

Grading System

Assignment 1 – (6 points)
Assignment 2 – (6 points)
Assignment 3 – (6 points)
Assignment 4 – (6 points)
Assignment 5 – (6 points)
Assignment 6 – (6 points)
Assignment 7 – (6 points)
Assignment 8 – (6 points)
Assignment 9 – (6 points)
Assignment 10 – (6 points)
Exam 1 – (20 points)
Exam 2 – (20 points)

Due dates TBD as each topic is started. Typically before the start of next class unless topic spans multiple weeks.

Total Possible Points: 100

A   90% or above
B+ 86% - 89%
B   80% - 85%
C+ 76% - 79%
C   70% - 75%
D   60% - 69%