Fall 2019

IT 202-451: Internet Applications

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IT 202 Internet Applications

1. Opening Note

This section of IT 202 is offered via "Canvas". The material covered will be the same as in the regular sections of IT 202. A substantial time investment into the course, on the order of 5-7 hours a week or more, must be expected (this includes watching the videos, participating in the learning management system discussions, and doing projects).

Discussions, weekly homework, and projects will take place continuously in “Canvas”, NJIT’s Learning Management System. You will be expected to sign on-line at least two times a week to view current/new activity.

It is my goal to give you as much information via this syllabus which I expect will remain unchanged. Should there be any need to make any modifications we will discuss so as a group and resolve.

2. Personnel

Instructor: Maura Ann Deek
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3. Course Overview

Title: Internet Applications
Credits: 3
Prerequisite: IT 101 and CIS 113 or equivalent
Description: A comprehensive overview of computer communication networks from data transmission to applications software.

Goals: to prepare the students to understand internet workings and distributed applications development;
To acquire the background necessary to understand emerging Internet applications;
To gain comprehensive knowledge of programming, tools, and skills required to build and maintain server sites on the web;
To develop an understanding of how the web works and the current widely used web technologies.
4. Topics

Fundamentals
Introduction to HTML/HTML5/XHTML
Cascading Style Sheets
The Basics of JavaScript
JavaScript and HTML Documents
Dynamic Documents with JavaScript
PHP
MySQL and SQL
Database Design, Advanced SQL and MySQL and Error Handling and Debugging
PHP and SQL
Introduction to AJAX
Web Application Development and Cookies and Sessions
Networked Application Security and Standards and Interoperability, Security Methods

5. Textbooks


6. Assignments

Reading:

It is required that you read the textbook chapters in the above books after you watch the corresponding lecture. Reading assignments will be posted on a weekly basis.

Homework:

Homework is of two kinds:

a) Weekly participation: Discussion postings about what you learned from each week's lesson.

b) Programming projects: There will be 5 programming projects also posted on the system to be submitted electronically.

7. Examinations

There will be a midterm and final exam given on the Newark campus. Exact date and time will be posted in “Canvas” on the course calendar and will be communicated electronically under the Week 0: General Course Information module.

8. Grading
Midterm: 25%
Final: 30%
Interaction homework and class participation: 20%
Programming projects: 25%

9. Late policies

Due to the nature of this course, late submission of Weekly Participation Discussions and Projects will have penalties applied.

An discussion/project will be considered LATE if it is not submitted by the given deadline (DATE and TIME).

The penalties are as follows:

1 point per day will be deducted for a late submission of a Weekly Participation Discussions (unless you have a good reason, such as documented illness).

2 points per day will be deducted for a late submission of a Project (unless you have a good reason, such as documented illness).

There will be NO EXCEPTION to this policy. Please manage your time appropriately.

10. Academic Integrity

The work you do and submit is expected to be the result of your effort ONLY. You may discuss the high level (general) solution of a problem. However, cooperation should not result in one or more students having possession of a copy of all or part of a program written by another student or tutor. The penalty for violating the University’s code may include failure in the course and probation.

12. Computing Needs

You will be using MySql (on NJIT server) and your own software on your NJIT notebook (or any other PC available to you).

13. Lecture Details

The course will cover 1 lecture per week (topics can be found in text described above) in the following order

Lesson 1 Fundamentals
Lesson 2 Introduction to HTML/HTML5XHTML
Lesson 3 Cascading Style Sheets
Lesson 4 Basics of JavaScript
Lesson 5 JavaScript and HTML Documents
Lesson 6 Dynamic Documents with JavaScript
Lesson 7 Introduction to PHP
Lesson 8 Introduction to PHP continued
Lesson 9 Introduction to MySQL and SQL
Lesson 10 Database Design, Advanced SQL and MySQL and Error Handling and Debugging
Lesson 11 PHP and SQL
Lesson 12 Introduction to AJAX
Lesson 13 Web Application Development and Cookies and Sessions
Lesson 14 Networked Application Security and Standards and Interoperability, Security Methods