

Fall 2019

IT 202-451: Internet Applications

Maura Ann Deek

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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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Office Hours: online

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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

1. Sebesta, Robert W., Programming the World Wide Web Eighth Edition, Addison Wesley.

2. Ullman, Larry, PHP and MySQL for Dynamic Web Sites: A Visual Quickpro Guide Fifth Edition Peachpit Press

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