

Spring 2020

## **IT 202-454: Internet and Applications**

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# IT 202 Internet and Applications

## Course Syllabus for the Virtual Class

### 1. Opening Note

This section of IT 202 is offered via "Moodle". 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 lectures, participating in the electronic conference discussions, and doing the homework and projects).

Discussions, weekly homework, and assignments will take place continuously in "Moodle", NJIT's computerized conferencing system. You will be expected to sign on-line at least two times a week. 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 and 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

PHP and MySQL

Cookies and Sessions

Introduction to AJAX

Networked Application Security and Standards and Interoperability

#### 5. Textbooks

1. Sebesta, Robert W., Programming the World Wide Web Sixth Edition, Addison Wesley.
2. Ullman, Larry, PHP and MySql for Dynamic Web Sites Fourth 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. Conference comments about what you learned from each week's lesson (the lecture and the reading assignment).
- b) Programming projects. There will be 4 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 assigned through the Office of Distance Learning and will be communicated electronically in the course conference once available.

## 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, no late Interaction Homework will be accepted (unless you have a good reason, such as documented illness). For projects there will be late penalties for late submissions.

## 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. 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 PC (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 PHP and SQL

Lesson 11 Cookies and Sessions

Lesson 12 Introduction to AJAX

Lesson 13 Networked Application Security and Standards and Interoperability