

Fall 2023

## IT 202 - 451, 453, 455, 457: Internet Applications

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## Course Syllabus

### **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 as a group and resolve.

#### **2. Personnel**

**Instructor:** Maura Ann Deek

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**Phone:** 973-596-3368

**Office Hours:** online

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#### **3. Course Overview Title: Internet Applications**

**Credits:** 3

**Prerequisite:** CS100 or CS113 or CS115 or a course in a high-level programming language as approved by the department

**Description:** This course presents the concepts and software technologies that underline web-oriented, three-tier software architectures and applications. The course will cover the implementation of web applications covering frontend, backend, and data layers. Topics discussed will range from markup and styling using HTML and CSS, frontend client-side scripting languages using JavaScript and jQuery (with usage of AJAX), backend/server-side scripting using PHP using Apache and database storage/manipulation using MySQL and SQL. This course will use a hands-on, guided development/milestone approach to develop a fully functional web application by semester's end.

#### 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
- Introduction to AJAX and jQuery
- Web Application Development
- Cookies and Sessions
- Networked Application Security and Standards and Interoperability, Security Methods

#### 5. Textbooks

##### REQUIRED

- Zybooks by Wiley - Web Programming you can purchase and access this text by following this:

**Click any zyBooks assignment link in your learning management system under Week 0**

**(Do not go to the zyBooks website and create a new account)**

##### **2. Subscribe**

**A subscription is \$77. Students may begin subscribing on Dec 20, 2022 and the cutoff to subscribe is May 10, 2023. Subscriptions will last until Jun 14, 2023 Please NOTE that Chapter 1 is free to view, but instructors won't see a student's activity until the student subscribes.**

##### OPTIONAL /SUPPLEMENTAL

- Sebesta, Robert W., Programming the World Wide Web Eighth Edition, Addison Wesley.
- 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 required texts. It is recommended that you read the supplement reading provided. Reading assignments will be posted on a weekly basis.

## Homework:

Homework is of two kinds:

- **Weekly participation:** Will consist of a combination of the following: the course Zybook's Participation Assignments/Labs, small coding assignments related to the subject matter taught and open-ended question discussions.
- **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. 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 Breakdown

- Midterm : **25 %**
- Final: **30 %**
- Interaction homework and class participation: **20%**
- Programming projects: **25 %**

## 9. Grading Scale

- A 100 % to 90%
- B+ < 89 % to 85%
- B < 84 % to 80%
- C+ < 79 % to 75%
- C < 74 % to 70%
- D < 69 % to 59%
- F < 59 % to 0.0%

## 10. Late policies

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

A weekly assignment/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 Assignment** (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.

## 11. 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 your AFS account, your MySQL account (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:

Schedule:

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