

## SDET 430 Course Syllabus – Fall 2025

### Ersal Aslam

#### Course Description

Course Title: SDET 430 – 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: Sep 2 – Dec 11, 2025

#### Instructor Information

Name: Ersal Aslam

Office location: 494 Broad St, NJIT Administrative Building Room 1020

Phone: 973-596-5303

E-mail: [aslam@njit.edu](mailto:aslam@njit.edu)

Office Hours: By appointment. In-person and virtual meetings.

#### Prerequisites

Requirements: Students must have a strong understanding of programming/coding concepts.

#### Course Information

Required viewing: Site: <http://canvas.njit.edu>

#### Topics Covered

- Lectures:
1. Introduction to PHP
  2. Working with Functions
  3. Manipulating Strings
  4. Handling User Input
  5. Working with Files and Directories
  6. Manipulating Arrays
  7. Working with Databases and MySQL
  8. Manipulating MySQL Databases with PHP
  9. Managing State Information
  10. Developing Object-Oriented PHP

#### Outcomes

- Course Outcomes:
- By the end of the course, students should be able to:
- Apply the W3C standard syntax and structure for XHTML documents
  - Format Web pages using Cascading Style Sheets (CSS)
  - Interface with a remote server
  - Learn the basic structure and syntax of the PHP scripting language
  - Integrate XHTML, CSS, and PHP to build interactive Web sites
  - Handle user input via form processing and URL tokens
  - Perform other Web-based activities (send e-mail, upload files to a server, manage file directories, authenticate users, handle cookies and sessions, and implement object-oriented programming)
  - Use embedded SQL to interact with a database to provide Web-based applications

## 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: *PHP Programming with MySQL(Second Edition), Gosselin, Don, 2011. ISBN-10: 0-5387-4584-3*

## 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.

- **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 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. Mid-Term exam will be after Topic 5.

Total Possible Points: 100

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

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*Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. **Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at [dos@njit.edu](mailto:dos@njit.edu)”*