

# Course Abstract

*If you need accommodations due to a disability, contact Disability Services in Edison Hall Room 100, 732.906.2546.*

*To foster a productive learning environment, the College requires that all students adhere to the Code of Student Conduct which is published in the college catalog and website.*

**Course ID and Name: CSC241 – Web Programming**

**Department: Business and Computer Science**

Chairperson or Course Coordinator: Dr. Aslihan Cakmak

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**Prerequisites:** CSC 125 and CSC161

**Co-requisites:** None

**Course Description:**

This course will provide students with the information necessary to develop web sites using Server-Side Technology. PHP will be used to create dynamic web pages and process form data. Students will learn how to integrate functions into their programs as well as using hashing and regular expressions to solve problems and implement algorithms. They will also use array structures to better organize and process data. Students will also work to develop web pages which access and maintain data using a database system such as MySQL.

**General Education Status:** N/A

**Credits: 4      Lecture Hours: 3      Lab Hours: 3**

**Learning Outcomes:**

**Upon successful completion of this course, a student will be able to:**

1. Demonstrate an understanding of the purpose of Server side programming in a website.
2. Demonstrate a knowledge of relationship between the client and the server in a web-based software system.
3. Build a Design for a server side program in the PHP language.
4. Construct through programming a server side program in the PHP language.
5. Demonstrate the ability to maintain and access data from a database.

6. Build web pages that receive data from a database operating on a Web-server.
7. Build dynamic web-pages to display data on demand via a search.
8. Build interactive web-pages using a PHP on the web-server.
9. Create PHP programs that use functions.
10. Create PHP programs that use arrays.
11. Create PHP programs that use hashes, and regular expressions.
12. Create PHP programs that use file Input and Output Processes.
13. Demonstrate the knowledge of using PHP to work with Cookies, Sessions and Headers.
14. Implement Error handling techniques into a web-based software system.

**Course Content Areas:**

- PHP and dynamic data processing
- Using Variables and Operators
- Controlling Program Flow
- Working with Arrays
- Using Functions and Classes
- Working with Files and Directories
- Working with Databases and SQL
- Working with Cookies, Sessions, and Headers
- Handling Errors