

**Common Course Outline**  
**WEBT 258/CINS 258**  
**Server-Side Scripting with PHP**  
**4 Semester Hours**

**The Community College of Baltimore County**

**Description**

**WEBT 258/CINS 258 – 4 Credits – Server-Side Scripting with PHP** introduces students to PHP and MySQL to develop dynamic web sites. Topics will include conditionals, functions, form processing, arrays, and loops. Students create a dynamic web site by developing database tables in MySQL, connecting to them using PHP and adding content to web pages. **4 credits; 4 lecture hours per week**

**Prerequisite: CINS 257 and CINS 111 or consent of the program coordinator**

**Overall Course Objectives**

Upon completion of this course the student will be able to:

1. describe server-side scripting and how to execute scripts on web servers;
2. integrate PHP and XHTML within the source code of a web document;
3. recognize, explain and use PHP variables and operators;
4. make decisions with PHP using conditionals;
5. manipulate strings using PHP defined functions;
6. code a user defined function and pass a parameter;
7. use PHP to process an HTML form;
8. code arrays and utilize loops to process data;
9. design and develop a database in MySQL;
10. connect to a MySQL database using PHP;
11. set and extract data from a cookie; and
12. develop a database driven dynamic web site.

**Major Topics**

- I. Introduction
  - a. Discuss PHP/MySQL
  - b. Sending Data to the Web Browser
- II. Exploring the PHP Environment
  - a. Creating and Handling an HTML Form
- III. Using Variables and Input

- a. Variable Scope
- IV. Controlling your Code with Conditions and Functions
- V. Loops and Arrays
  - a. Discuss Arrays
  - b. For and While Loops
  - c. String Handling
- VI. Working with Files
  - a. Using External Files
- VII. Writing Programs with Objects
- VIII. Session Management
- IX. Working with Cookies
- X. Using MySQL to Create Databases
  - a. Designing Tables
  - b. Creating Databases and Tables
  - c. Inserting Records
  - d. Selecting Data
  - e. Updating Data
- XI. Connecting to Databases within PHP
  - a. Making the Template
  - b. Connecting to MySQL and Selecting the Database
  - c. Error Handling
  - d. Executing Simple Queries
  - e. Retrieving Query Results
  - f. Updating Records with PHP
- XII. Web Application Development
  - a. Debugging Techniques
  - b. PHP Error Management
  - c. MySQL Error Management
  - d. Improving Web Application Performance

### **Course Requirements**

**Grading/exams:** Grading procedures will be determined by the individual faculty member but will include the following:

- 2 Exams
- 5 Projects
- 1 Final Web Site Project

### **Other Course Information**

This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

This is a required course in the Server-Side option of the Web Technology Degree Program.