Common Course Outline
CSIT 224
Server-Side Scripting with PHP
4 Credits

The Community College of Baltimore County

Description

CSIT 224 – 4 credits – Server-Side Scripting with PHP introduces students to Hypertext Preprocessor (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
Prerequisite: CSIT 111, CSIT 121, and CSIT 154 or consent of the Program Director

Overall Course Objectives
Upon completion of this course students will be able to:

1. describe server-side scripting and how to execute scripts on web servers;
2. integrate PHP and Hyper Text Markup Language (HTML) 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. PHP/MySQL as a Web Application Platform
   B. HTTP Requests and Responses
II. Using Variables and Input
   A. Data Types
   B. Variable Scope
III. Control Structures
   A. Decisions
   B. Iteration
   C. Loops and Arrays

IV. Working with Data
    A. String Manipulation
    B. Arrays
    C. External Files
    D. Arrays
    E. Databases
V. Session Management
    A. Working with Cookies
    B. Working with Session(s)
VI. Using MySQL to Create Databases
    A. Designing Tables
    B. Creating Databases and Tables
    C. Managing Permissions
    D. Inserting Records
    E. Selecting Data
    F. Updating Data
    G. Deleting Data
VII. 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
VIII. Web Application Development
    A. Debugging Techniques
    B. PHP Error Management
    C. MySQL Error Management
IX. Improving Web Application Performance

Course Requirements

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

2 Exams
5 Projects
1 Final Web Application Project

Writing Requirement: Students are required to utilize appropriate academic resources.

Other Course Information

This course is taught in a computerized environment.
This is an elective course for the Web Development option of the Information Technology Degree Program.

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