

Department:

Computer Support Technology

Course Description:

This course is designed to introduce students to web development using PHP and MySQL. Concepts discussed include Apache server set up, PHP applications and forms, and the creation, use, and maintenance of a MySQL database.

Course Competencies:

1. Install an Apache server
2. Create a PHP application
3. Work with form data, dates, arrays, sessions, cookies, functions, objects, regular expressions, and exceptions
4. Design and create a MySQL database
5. Access and maintain data in a MySQL database
6. Secure web pages
7. Send email, upload files, process images, and access content from other websites

Course Content:

- A. Get started fast with PHP and MySQL
 - I. Introduction to web development with PHP
 - II. How to code a PHP application
 - III. Introduction to relational databases and MySQL
 - IV. How to use PHP with a MySQL database
 - V. How to use the MVP pattern to organize your code
 - VI. How to test and debug a PHP application
- B. Master PHP programming
 - I. How to work with form data
 - II. How to code control statements
 - III. How to work with strings and numbers
 - IV. How to work with dates
 - V. How to create and use arrays
 - VI. How to work with cookies and sessions
 - VII. How to create and use functions
 - VIII. How to create and use objects

- IX. How to use regular expressions, handle exceptions, and validate data

- C. Master MySQL Programming
 - I. How to design a database
 - II. How to use SQL to create a MySQL database
 - III. How to work with a MySQL database
 - IV. Professional PHP for working with MySQL
 - V. A database-driven web site

- D. Master the advanced skills for building web sites
 - I. How to create secure web sites
 - II. How to send email and access other web sites
 - III. How to work with files, uploads, and images
 - IV. An eCommerce web site

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

Instructional Materials:

Mike Murach and Associate's. *Murach's PHP and MySQL, 2nd Edition. 2014.*
ISBN: 9781890774790

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" at this link:
<https://highlandcc.edu/pages/disability-services>.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.