

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

PHP Programming

(24 hours)

ITSE 5063

COURSE SYLLABUS

Course Description: PHP hypertext preprocessor is a server side programming language that you embed into documents such as HTML files, which may contain DHML, JavaScript, and Java. PHP is great for creating pages on the fly and can be used to make guest books, message boards, and other interactive pages. Learn the programming aspect of PHP, variables, operators, hashes, arrays, and control structures. **Prerequisites:** Intermediate World Wide Web Authoring & XHTML plus basic programming knowledge.

Objectives: Every student will be able to:

- Describe PHP, it's positioning and usefulness for the web
- Explain the connection between HTML forms and PHP scripts
- Write basic PHP scripts using variables, control structures, arrays, strings and file I/O
- Interface a PHP script with an MySQL database

Rationale: PHP hypertext preprocessor is a server side programming language which you embed into documents such as your HTML files. The HTML files, which may also contain DHML, JavaScript, and Java, are client side documents. PHP unlike HTML and other client side documents is great for creating pages on the fly. PHP can be used to make guest books, message boards, and other interactive pages.

Required Book: Check course description at www.austincc.edu/webcert/ for required books.

Type of Course: Short Course

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Evaluation: Students will be evaluated on their competency in performing a variety of hands-on exercises created to insure the student has achieved all course objectives throughout the course, and class participation. In order to grant CEU credit for a course the students must be able to complete assessment exercises for each part of the course given by the instructor. The instructor will validate each participant's achievement of the course objectives by signing and awarding individual certificates of completion.

Course Outline:

- I. Introduction to PHP** (1 hours)
 - 1. Positioning
 - 2. History
 - 3. Comparison to other languages

- II. PHP Basics** (4 hours)
 - 1. Creating PHP scripts
 - 2. Variables, constants
 - 3. Operators
 - 4. Control structures, iteration
 - 5. Interfacing with HTML forms

- III. System Interaction** (6 hours)
 - 1. Opening, closing, writing to, and reading from data files
 - 2. File locking
 - 3. File upload
 - 4. Executing system commands

- IV. Arrays and Strings** (6 hours)
 - 1. Various array types (numerically indexed, associative, multidimensional)
 - 2. Sorting, reordering, counting and other array manipulations
 - 3. Formatting, joining, splitting, comparing, and other string manipulations
 - 4. Regular expressions

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- V. Advanced Topics** (content may vary based on student interest) (7 hours)
1. Cookies
 2. Security
 3. Database integration

Student Assessment Checklist:

At the completion of the course each student will be able to:

1. Describe PHP, it's positioning and usefulness for the web
2. Explain the connection between HTML forms and PHP scripts
3. Write basic PHP scripts using variables, control structures, arrays, strings and file I/O
4. Interface a PHP script with an MySQL database