

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

**Programming For E-Commerce Websites
(24 hours)**

ITSX 3016

COURSE SYLLABUS

Required Material: None

Type of Course: Short Course

Description: This technical programming class takes the student through the design and development of an E-Commerce shopping cart system, using PHP and MySQL. Prerequisites: Introduction to E-Commerce and Introduction to Programming Languages or knowledge of computer programming in at least one language.

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 through 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.

Objectives:

- Discuss the underlying technologies of an E-Commerce software system
- Describe the database structure of an E-Commerce shopping cart script
- Define basic password protection functions in PHP/MySQL
- Explain category and product management functions of an E-Commerce system
- Describe the HTML and PHP/MySQL code needed for checkout and Paypal integration
- Explain the code for PHP session handling
- Create a requirements document that describes the functionality of a medium sized E-Commerce system
- Examine, review, and document Paypal integration techniques

Rationale: Commercialism of the World Wide Web has led to the need for programmers with the ability to write and maintain E-Commerce software. This course provides students with technical knowledge and the basic skills needed to understand complex E-Commerce software.

Course Outline:

I. Introduction to E-Commerce Programming (4 hours)

- A. Concepts
- B. Technologies
- C. File Structure
- D. MySQL Database Structure

II. Shopping Cart Back-end (4 hours)

- A. Password Protection
- B. Product Catalog
- C. Managing Categories and Products
- D. Managing Orders and Special Offers

III. Shopping Cart Front-end (4 hours)

- A. Viewing Product Catalog
- B. Product Search
- C. Cart
- D. Checkout Form and Functions (HTML and PHP)
- E. Paypal Integration

IV. Security Functions (4 hrs.)

- A. Setting up security
- B. PHP Session Handling

V. Program Requirements Document (4 hrs.)

- A. Create a Requirements Document

VI. Final Project (4 hr.)

- A. Examine, Review and Document Paypal Integration Techniques