



## **Master Course Syllabus**

# **CWB 2021 Technology Foundations for E-Commerce**

### **Purpose of Document**

This document contains important information about this course's objectives. It may be helpful for you to retain a copy for your records, along with the class specific syllabus. This document will be especially helpful if you decide to later change your course of study.

Pikes Peak State College and the Colorado Department of Higher Education have determined that graduates should have a broad range of learning skills as well as discipline related skills. Both types of skills are detailed below.

### **Course Description**

Provides the student with thorough knowledge of e-commerce architecture, relational database management systems, and HTML and Network fundamentals.

Min Credit: 3

### **Standard Competencies:**

- I. Describe how the e-commerce architecture model and key components function to support e-commerce applications.
- II. Describe the benefits of the e-commerce architecture model as it pertains to an e-commerce business solution.
- III. Create HTML documents.
- IV. Test the functionality of HTML documents in various Web Browsers.
- V. Describe the network structure used in E-Commerce.
- VI. List and define Network and Security Protocols.
- VII. Describe e-commerce communication standards.
- VIII. Describe what a database is and list the major types of databases.
- IX. Describe the database physical structure and list the major components.
- X. List the main database files used to start and control the database.
- XI. Stop and start the database.
- XII. Describe the database logical structure and list the major components.
- XIII. Create and modify database structures such as tablespaces and rollback segments.
- XIV. Understand an entity relationship diagram and be able to develop one from an information plan.
- XV. Describe and list all the database objects covered in the course.
- XVI. Create and modify the database objects covered.
- XVII. Utilize the database access tool, SQL (Structure Query Language) to obtain information from the database.

- XVIII. Execute an explain plan for a SQL statement.
- XIX. Describe Java Technologies.

#### Topical Outline:

- I. E-commerce Fundamentals
- II. Application Server
- III. Central Services
- IV. Presentation Layer
- V. Data and Application Access Layer
- VI. System components
- VII. Using a Web Browser
- VIII. HTML Editors
- IX. Minimal HTML Document
- X. Creating a basic HTML Document
- XI. Creating Lists, Links, and Anchors
- XII. Adding Graphics, Background and Images
- XIII. Creating Tables, Forms and Frames
- XIV. Using Homesite and Dreamweaver
- XV. Modifying an Existing Product HTML File
- XVI. Troubleshooting
- XVII. Network Protocols
- XVIII. Security
- XIX. Security Protocols
- XX. Security Components
- XXI. E-Commerce Communication Standards
- XXII. Architectural Overview
- XXIII. Architectural Configuration
- XXIV. Installation and Configuration
- XXV. Business Object Builder Configuration
- XXVI. Installation Verification