COURSE DESCRIPTION

Prerequisites: Basic understanding of problem solving and logic structures used with computers obtained in ITSE 1429 or equivalent experiences approved by instructor consent.

Course Description: Database development using database programming techniques emphasizing database structures, modeling, and database access.

This course will demonstrate techniques for designing, organizing and implementing database programming techniques using MySQL and Access in a web environment. This course covers installation, configuration, and administration of a MySQL database for use with current web technologies including XML, Java and PHP. We will discuss Pearl and ASP and Web Compatible database engines will be explored.

This is a 4 credit hour course. (3 lec., 4 lab.)

WECM END-OF-COURSE OUTCOMES: Develop database applications using a structured query language; create queries and reports from database tables; implement data integrity; optimize query performance; create and maintain indexes; and create appropriate documentation.

STUDENT LEARNING OUTCOMES:
By the end of this course, students will be able to:
- Demonstrate the ability to install, configure and maintain a MySQL relational database.
- Build web pages to create, update and delete data from a database.
- Describe components of a disaster recovery plan that are required for database driven web sites.
- Utilize current server-side technologies such as PHP to connect and retrieve data from a MySQL database.
- Describe procedures needed to maintain and troubleshoot a database

COURSE MATERIALS

(ISBN# 978-1418836351)

Materials: A minimum of 1GB USB Flash drive
Spiral Notebook
Ink Pen

A student of this institution (El Centro College) is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
MAJOR COURSE REQUIREMENTS
Students will participate in On-Line and/or Hands on instruction, Lecture and Lab activities addressing major topics covered in this course.

Students will produce Lab Assignments for the following topics:
- Databases
- Tables
- SQL
- Command line editing
- PHPMyAdmin
- MySql
- PHP
- Web based database connectivity

A Midterm and Final Exam will evaluate the students understanding of Database Programming concepts and knowledge.

SUBJECT MATTER
Topics covered in the lecture portion of the course include:
- Databases
- Tables
- SQL
- Command line editing
- PHPMyAdmin
- MySql
- PHP
- Web based database connectivity

DISCLAIMER
The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.

The instructor-of-record may provide additional information to enhance the course to meet the needs of the enrolled students, provided that the enhancements do not conflict with the official course syllabus.

POLICIES
Students should click on the links below and read all of these policies.

General institutional policies
Course-related institutional policies