COURSE OUTLINE

Division: Information Technology

Curriculum: Web Development

Course Title: Web Database

Course Number: ITC 280

Quarter-Hour Credits: 55

Type of Course: Professional-Technical

Course Description: This course introduces students to the skills, tools, and techniques needed to create database driven web sites. It is project driven and hands-on, giving students practice in the skills they need. The languages and methods used for database access will remain flexible to account for the most current industry standards.

Course Objectives: To provide students with a sound basic understanding of and practice in creating database driven web pages.

Student Outcomes: After finishing this course a student will be able to
  • Understand and utilize the client server architecture to connect users interfaces to underlying databases.
  • Utilize programming methods to connect to relational databases (ADO, ASP, CGI etc.)
  • Create web forms to post database requests
  • Use SQL and web programming script or language to retrieve, insert, update and delete data
  • Return results to web as HTML
  • Understand the function of XML in data communication on the web
  • Locate and utilize sources of relevant information
  • Work together effectively in teams

Length of Course: One Quarter

Prerequisites: Web 110
Topical Outline:

- Overview of relational databases and the web
- Client/Server/n-tier network architectures
- Review of basic HTML
- HTML forms, Posting requests
- Server Side Scripting (ASP, CGI, etc.)
- Accessing Data: SQL
- Returning the Data as HTML
- Filtering data based on User choices (SQL)
- Inserting, Updating, Deleting underlying Data (SQL)
- Validating data, enforcing business rules
- Security issues and techniques
- XML