

WEB 250
DATABASE DRIVEN WEBSITES

COURSE DESCRIPTION

Prerequisites: DBA 110 and WEB 140

Co requisites: None

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

COURSE OBJECTIVES:

Upon completion of the course a student should be familiar with:

- a. Interactive FORM creation on the web using HTML
- b. Creating databases(Using SQL and wizard)
- c. Learn SQL
- d. Server side and client side script to validate the data
- e. Using Insert, Delete, Update, Select statements and save data from the web form to back end database. Retrieve data from database and populate a form.
- f. Learn Databases compliant with ODBC

OUTLINE OF INSTRUCTION:

- I. Forms
 - A. Introduction to form in HTML and Web forms in .net
 - B. Form Controls and Form object
 - C. Form Validation
 - D. Form Submission and processing
- II. Database connections
 - A. Query server (RDBMS) and File Server
 - B. SQL premier, DDL and DML
 - C. Embedded SQL in languages
- III. Processing data
 - A. Processing data in the server from the web form
 - B. Server side scripting and executables
 - C. Server databases: MySQL, SQL Server, Oracle with scripting such as PHP, ASP and more

IV. Active Data Objects (ADO)

- A. ADO.net and Data manipulation objects with ADO.net
- B. Passing data from web form to the server using ADO.net
- C. Managing Data sources: Built-in database tools
- D. SQL scripts in VB and stored procedures
- E. Binding data to controls
- F. Populating web forms with retrieved data
- G. Searching on the web form
- H. XML and web Service

V. ASP .NET Applications

- A. Special Projects

REQUIRED TEXTBOOKS AND MATERIALS:

Kalata. *Intro to ASP .NET (w/DVD)*. 2nd edition. Thomson/Course Technology. ISBN 0619216859.

STATEMENT OF STUDENT DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.