Outline of Instruction

Division: Business  Area: Computer Information Systems
Course Number: CIS 274  Course Name: Advanced Database Web Development with ASP.NET
Prerequisite: 2 Computer Programming Languages (to include CIS 132, CIS 150, CIS 152, CIS 175, CIS 179 or any 200-level programming course)
Corequisite: None
Hours Required: Class: 45  Lab:  Credits: 3

Course Description/Purpose
This course covers advanced topics in the design and maintenance of interactive and dynamic Web applications using the server-based scripting environment. It will cover Web programming concepts and advanced topics, such as ASP.NET (Active Server Pages). CIS 112, CIS 177, and CIS 272 are recommended prior to enrolling in this course. Note: CIS 177 does not meet the programming language requirement for this course.

Major Units
- Web Database Programming and HTML Overview
- Client-Side Scripts to Enhance Web Applications
- Introduction to ASP.NET and Visual Studio.NET
- Server Controls
- Creating User Defined Components in VB.NET within an ASP.NET page
- Managing Data Sources
- Processing ASP.NET Web Forms
- Building Data–Driven Applications using SQL, Databases, and ASP.NET
- Configuring an ASP.NET Application
- Creating, Troubleshooting, and Deploying an Integrated Web Application

Educational/Course Outcomes
Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

Cognitive  Each student will be expected to Identify/Recognize...
- terminology related to server-side applications using ASP.NET
- advantages of ASP.NET over older server side programming languages like CGI and PERL
- steps involved in building a data-driven ASP.NET application
- the role of server controls
- various aspects of managing data sources
- the process of configuring, creating, troubleshooting, and deploying an integrated Web Application using ASP.NET

Performance  Each student will be expected to Demonstrate/Practice...
their ability to:
- process ASP.NET web forms and work with server controls to create dynamic Web pages
- design, configure, build, troubleshoot, and deploy data-driven Web applications using ASP.NET

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