CSCI 2910 Server-Side Web Programming

Credit Hours: 4

Contact Hours: 4

Course Coordinator: Tony Pittarese

Text(s): None

Catalog Description:

This course covers strategies for developing maintainable and efficient server-side Web applications. Topics include object-oriented methodology, server-side scripting languages, sessions, database integration with web applications, and web site security.

Prerequisite(s): CSCI 1260, CSCI 1710, and CSCI 2020

CS: MAJOR ELECTIVE
IS: REQUIRED
IT: REQUIRED

Course Outcomes:

Write applications in one current server-side scripting language - ETSU Outcome 5c; ABET Outcome IS-j

Execute basic SQL from server-side scripting with XHTML tagging - ETSU Outcomes 3a, 5c; ABET Outcome i

Work with modern development tools - ETSU Outcomes 4b, 5c

Develop a secure, real-world server-side application that interacts with a database - ETSU Outcomes IT-1a, IT-1b; ABET Outcomes b, e.4

Major Topics:

Review of Dreamweaver, XHTML, and cascading style sheets (external, embedded, and inline styles), positioning with styles

Review of SQL (what is a database, select statement), MySQL (data types, using the MySQL monitor on a Unix system, writing scripts to create and manipulate databases)

PHP superglobal arrays

Working with applications submitting forms, get/post methods, arrays, loops, functions, headers, sticky forms, date/time, session variables

Security in server-side scripting

Transition to developer tool for server-side programming

Using a new development environment (interface, coding, security)