CSCI 3110  Advanced Topics in Web Development

Credit Hours: 3

Contact Hours: 4

Course Coordinator: Tony Pittarese

Text(s):

*The JavaScript Pocket Guide*, Lenny Burdette, 2010 (Required)

Catalog Description:

This course covers advanced Web coding concepts and teaches students how to add an extra layer of usability to a Web page using a current scripting language or tool. Students learn how to create accessible modern web applications that integrate current Web standards.

Prerequisite(s): CSCI 2910

CS: MAJOR ELECTIVE
IS: MAJOR ELECTIVE
IT: EITHER CSCI 3110 OR CSCI 4617

Course Outcomes:

Understand and be able to implement advanced Web coding concepts - ETSU Outcomes 5c, IT-1b; ABET Outcomes c, i, IT-1

Implement an extra layer of usability to a Web page using a current scripting language or tool. -ETSU Outcomes 5c, IT-1b; ABET Outcome i

Have the ability to create an accessible, modern HTML page that integrates current Web standards -ETSU Outcomes 5c, IT-1, IT-3; ABET Outcome CS-k

Major Topics:

Client-side Web scripting
JavaScript
Browser Object Model (BOM)
Document Object Model (DOM)
Client-side scripting libraries (jQuery, etc.)
AJAX
A general overview of contemporary Web development techniques