

CSC 365: Internet Programming

Catalog Description:

An introduction to paradigms and languages used in Internet and World Wide Web programming. These include modern tools for client-side and server-side programming and dynamic Web page generation. Advanced topics, such as security and XML, will be covered as time allows. Public Affairs Capstone Experience course. 3(3-0) F

Prerequisites for this course: "C" or better in CSC 121 or CSC 125 or CSC 131.
This course is a prerequisite for: CSC 450.

Required Text:

Web Programming Step by Step, 2nd edition, by Marty Stepp, Jessica Miller, and Victoria Kirst.
ISBN-10: 110557878X.

Major Topics (including information for course sequence or transition)

1. HTML 5 (page structure, lists, tables, forms, audio & video, web standards, validation)
2. Cascading Style Sheets (CSS properties, style inheritance & conflicts, CSS selectors, pseudo-classes, page layout, floating, positioning, validation)
3. PHP (syntax overview, embedded PHP, expression blocks, arrays, functions, files, processing form data, regular expressions and form validation, sessions, cookies, interacting with databases, basic security)
4. JavaScript (syntax overview, arrays, functions, objects, host objects, DOM, DOM traversal, events, regular expressions and form validation)
5. If time permits: XML overview, AJAX

Student Outcomes Assessed in CSC 365

- A. Students will attain an ability to apply knowledge of computing and mathematics appropriate to the discipline
- B. Students will attain an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- C. Students will attain an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- I. Students will attain an ability to use current techniques, skills, and tools necessary for computing practice

CAC Characteristics Enabled But Not Assessed in CSC 365

- E. Students will attain an understanding of professional, ethical, legal, security and social issues and responsibilities
- G. Students will attain an ability to analyze the local and global impact of computing on individuals, organizations, and society
- H. Students will attain a recognition of the need for and an ability to engage in continuing professional development

Table 1. Student Outcomes assessed by CSC 365

CSC 365 Student Outcomes	CSC 365 Performance Indicators	CSC 365 Assessment Goals
CSC 365 contributes to SO A: Students will attain an ability to apply knowledge of computing and mathematics appropriate to the discipline	PI 365-1a: Building a dynamic Web site using HTML, CSS and PHP PI 365-1b: Writing JavaScript code to add behavior to a web page	PI 365-1a: >= 70% correct PI 365-1b: >= 70% correct
CSC 365 contributes to SO B: Students will attain an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution	PI 365-2: Building a dynamic Web site using HTML forms, CSC and PHP	PI 365-2: >= 70% correct
CSC 365 contributes to SO C: Students will attain an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	PI 365-3: Building a dynamic web site using HTML, CSS and JavaScript	PI 365-3: >= 60% correct
CSC 365 contributes to SO I: Students will attain an ability to use current techniques, skills, and tools necessary for computing practice	PI 365-4a: Using HTML and CSS to build a static Web site PI 365-4b: Using HTML and more CSS to build a Web site PI 365-4c: Writing HTML and CSS code to display a table with lists	PI 365-4a: >= 60% correct PI 365-4b: >= 60% correct PI 365-4c: >= 60% correct

Table 2. CAC Characteristics enabled by CSC 365

CSC 365 CAC Characteristics	CSC 365 Characteristics Enablers
CSC 365 enables Characteristic E: Students will attain an understanding of professional, ethical, legal, security and social issues and responsibilities	CE 365-1. Students learn how to do form validation.
CSC 365 enables Characteristic G: Students will attain an ability to analyze the local and global impact of computing on individuals, organizations, and society	CE 365-2. Students understand how the Internet has changed our lives.
CSC 365 enables Characteristic H: Students will attain a recognition of the need for and an ability to engage in continuing professional development	CE 365-3. Students recognize the importance of continues professional development as Web technologies change fast and one needs to know the latest developments to be competitive in the market place.