



Course Name: Web Design and Development I

Course Number: CST* E150

Credits: 3

Catalog description: An introduction to the development of Internet web sites with an emphasis on HTML and the related technologies that form the basis of web development. Students learn how to use HTML and related technologies to create multi-page web sites that include links, tables, frames, forms, graphics, image maps, multimedia, and style sheets. Course content is continually updated to reflect the current state of the art in Internet computing.

The course requires substantial hands-on use of computers in a computerized classroom environment.

Prerequisite: The ability to perform basic file management and word processing tasks using Microsoft Windows

Corequisite or Parallel:

General Education Competencies Satisfied:

HCC General Education Requirement Designated Competency Attribute Code(s):

None

Additional CSCU General Education Requirements for CSCU Transfer Degree Programs:

None

Embedded Competency(ies):

None

Discipline-Specific Attribute Code(s):

COMP Computer Science Elective



Course objectives:

General Education Goals and Outcomes:

None

Course Specific Objectives:

1. Develop multi-page web sites using HTML.
2. Develop web pages that link to other web pages and files.
3. Develop web pages that incorporate HTML frames and linked windows.
4. Develop web pages that employ HTML tables for page layout.
5. Develop web pages that employ HTML to layout the following images: GIF, JPG, animated GIF, and transparent GIF.
6. Develop web pages that contain multi-media.
7. Develop web pages that incorporate image maps
8. Develop web pages that use HTML forms to provide a graphical user interface.
9. Develop web pages that incorporate external, embedded, and inline cascading style sheets.
10. Develop web pages that use HTML to produce complex tables.
11. Develop web pages that incorporate rudimentary DHTML and that make simple calls to existing JavaScript scripts.

Course Content:

- Overview of the Internet
 - Internet Protocols
 - IP addressing
 - The Domain Name System
- HTML syntax and basic tags
- Links
 - To other web sites
 - To other files
 - Absolute links versus relative links
- Graphics and multimedia
 - GIF images
 - JPG images
 - Image maps
 - Using HTML to layout images on a page
 - Data compression strategies for images
 - Incorporating multimedia into a web site



- Tables
 - Basic table creation
 - Using tables to create complex page layouts
- Forms
 - Creating the user interface
 - Communicating between forms and client-side scripts and server-side scripts
- Cascading style sheets
 - External style sheets
 - Embedded style sheets
 - Inline styles
- Frames and linked windows
- Introduction to DHTML and JavaScript

Date Course Created:

Date of Last Revision: 04/04/2017