COMP 1054: INTERFACE DESIGN USING CSS

Also listed as:

COMP 1104

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term

Winter 2019

Full Course Title

Interface Design Using CSS

Subject Code

COMP - PS Computers

Course Number

1054

Academic Level

Post Secondary

Grade Mode

Numeric

Total Hours

42

Course Description

Design principles meet Web standards and æsthetic challenges in this practical interface design course. Topics covered include advanced CSS selectors, CSS normalization, page layout techniques, interactive interface elements, colour, typography, and a variety of CSS-based visual effects. Responsive design fundamentals that address a variety of screen-rendering contexts are also addressed.

Prerequisite Course(s)

COMP 1002 - HTML, CSS, and JS Fundamentals

Course Content

- CSS
    - syntax, formatting, commenting, and validation
    - advanced selectors
    - reset and normalization techniques
- Layout
    - CSS positioning
    - CSS box model
    - CSS flexbox, CSS grid, and multi-column
    - fixed-width, liquid, and elastic
    - responsive design with media queries
- Typography
    - embedding Web fonts with @font-face
    - Web font services and APIs
    - typeface choices, readability and legibility
- User Interface (UI)
    - common UI design patterns and widgets
    - form input and controls
    - cross platform/browser issues
    - testing and troubleshooting

Course Evaluation

The passing grade for this course is 50% unless otherwise noted below. The evaluation is comprised of:
- Assignments 40%
- Projects 30%
- Tests 30%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/ emergency can be proven with appropriate documentation at no cost to the College.

The passing grade for all courses is 50%, or letter grade of P (Pass) or S (Satisfactory) unless otherwise noted below. The passing weighted average for promotion through each semester of a program is 60% and is a requirement to graduate.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. apply standards-based and accessible HTML and CSS techniques to produce a variety of web page layouts;

This learning outcome meets the following Essential Employability Skill(s):

EES3: Numeracy
EES4: Approaches to problem solving
EES5: Critical thinking to solve problems

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. implement appropriate elements of user-interface design specific to Web sites and applications;

This learning outcome meets the following Essential Employability Skill(s):

EES1: Communication
EES2: Response to communication
EES6: Organization of information
EES7: Application of research and information

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. control the display and flow of text using appropriate typefaces;

This learning outcome meets the following Essential Employability Skill(s):

EES1: Communication
EES3: Numeracy

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. construct CSS rules to control positioning, dimensions, colours, background images, interaction, and other properties of Web page elements;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving

EES5: Critical thinking to solve problems
EES6: Organization of information

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. explain the various components and syntax of a valid CSS rule;

This learning outcome meets the following Essential Employability Skill(s):

EES1: Communication

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

6. design responsive user interfaces that adapt to a variety of devices and platforms.

This learning outcome meets the following Essential Employability Skill(s):

EES3: Numeracy
EES4: Approaches to problem solving
EES5: Critical thinking to solve problems
EES7: Application of research and information

Evaluation

Introduced
Reinforced
Assessed

Key: 29922