



TCH040: Web Design (Elective)

This course provides a comprehensive introduction to the essentials of Web design, from planning page layouts to publishing a complete site to the Web. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools from Microsoft.

COURSE LENGTH: One semester

MATERIALS: Visual Web 2008 and GIMP 2.0

PREREQUISITES: None

Unit 1: Favorite Page

Students learn the purpose of a WYSIWYG Web editor, create a folder for a website, and open a new webpage. They learn how to navigate in KompoZer, view the code in Source view, add and format text, resize and optimize images, and test and publish websites.

- Create a webpage
- Navigate in KompoZer
- Switch Viewing Modes
- Add and Format Text
- Resize an Image
- Optimize an Image
- Test and Publish

Unit 2: Linked Site

Students learn to set up pages, and set the background and text colors for each page. They look at layout, alignment, and spacing; learn to create tables; and add and format text. They make thumbnail images and optimize images for the Web. They add linked text and images to a home page and link other pages to the home page and to each other.

- Set Up the Pages
- Choose a Color Palette
- Format the Site
- Prepare Images
- Add Links

Unit 3: HTML Portfolio

Students look at how HTML code is organized, learn to create a basic HTML webpage with Notepad, and add and format heading and body text. They learn about absolute and relative links, look at folder organization, add links to the other websites, and make the links open in a new browser window. They identify the HTML tag for adding images and add thumbnail images to the portfolio page.

- Write an HTML webpage
- Add Heading Text
- Add Body Text
- Add Links
- Add Images



Unit 4: Styled Site

Students choose appropriate page titles and file names, and add the website to the Site Manager. They identify the problem with using HTML to style a page, and how CSS uses style sheets and style rules. They make a table to structure the layout of the home page and a navigation bar in the left column of the table. They style the link text and background color with CSS, and look at internal and external style sheets.

- Title and Name Pages
- Style a Heading
- Make a Navigation Bar
- Style the Home Page
- Export a Style Sheet
- Modify a Style Sheet

Unit 5: CSS Code

Students write a heading text style rule for the portfolio page; and write style rules for linked headings, body styles, and inline styles. They look at how styles cascade in CSS, turn an internal style sheet into an external one, and link an external style sheet to a page. They make a second external style sheet and rank external style sheets.

- Write a Heading Style Rule
- Style Linked Headings
- Write a Body Style Rule
- Write Inline Style
- Make an External Style Sheet
- Make a Second Style Sheet

Unit 6: JavaScript

Students identify the purpose of JavaScript, add JavaScript to links, and add image filters. They add rollover images. They identify the purpose of <script> tags, add dynamic JavaScript to a webpage, add a function with several commands to a webpage, add a button, and call a function.

- Add Image Links
- Add a Dialog Box
- Add Image Filters
- Add Rollover Images
- Add the Date and Time
- Add a Function
- Final Assignment