

CompuScholar, Inc.**Alignment to Florida "Foundations of Web Design" Course Standards****Florida Course Details:**

Course Name:	Foundations of Web Design (2024-2025)
Course Code(s):	9001110
Credit:	1
State Standards Link:	https://www.cpalms.org/PreviewCourseProgram/Preview/4207

CompuScholar Course Details:

Course Title:	Web Design
Course ISBN:	978-0-9887070-3-0
Course Year:	2025

Course Description (from CPALMS)

This course is designed to provide students with opportunities to acquire and apply foundational skills related to web design.

Course Standards

Note 1: Citation(s) listed may represent a subset of the instances where objectives are met throughout the course.

Note 2: Citation(s) for a "Lesson" refer to the "Lesson Text" elements and associated "Activities" within the course, unless otherwise noted. The "Instructional Video" components are supplements designed to introduce or re-enforce the main lesson concepts, and the Lesson Text contains full details.

CTE-IT.912.9001110.1 - Demonstrate proficiency setting website project requirements during the design phase and project planning phase of web development. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.1.1 - Define information architecture.	Chapter 13, Lesson 1
CTE-IT.912.9001110.1.2 - Discuss the importance of information architecture to web design and development.	Chapter 13, Lesson 1
CTE-IT.912.9001110.1.3 - Conduct a client interview to determine the business purpose and needs.	Supplemental Lesson 4 & Activity
CTE-IT.912.9001110.1.4 - Conduct a competitive analysis.	Supplemental Lesson 4 & Activity
CTE-IT.912.9001110.1.5 - Describe the activities performed during the design phase and project planning phase of website development.	Chapter 14, Lessons 1, 2, 3 Supplemental Lesson 4
CTE-IT.912.9001110.1.6 - Demonstrate basic design principles (e.g., use of colors, proximity, rule of thirds, white space in the design of a website).	Chapter 6, Lesson 2 Chapter 10, Lesson 1 Chapter 11, Lesson 1

CTE-IT.912.9001110.1.7 - Define the site structure by creating a content map, site map, storyboard, associated wireframes, and web design comp for client approval.	Chapter 13, Lesson 1 Chapter 14, Lessons 1, 2
CTE-IT.912.9001110.1.8 - Analyze and evaluate global site maps.	Chapter 13, Lesson 1 Chapter 14, Lessons 1, 2
CTE-IT.912.9001110.1.9 - Discuss the legal and ethical issues (e.g., copyright laws, obtaining permission, public domain, proper citations) related to web design.	Chapter 16, Lesson 1
CTE-IT.912.9001110.1.10 - Describe accessibility and its implications on web design.	Chapter 13, Lesson 2
CTE-IT.912.9001110.1.11 - Identify the client and target audience needs, as well as the purpose of a website.	Chapter 14, Lesson 1 & Activity 1 Supplemental Lesson 4 & Activity
CTE-IT.912.9001110.1.12 - Describe project management responsibilities.	Supplemental Lesson 4 Supplemental Lesson 8
CTE-IT.912.9001110.1.13 - Define website project scope and scope creep.	Chapter 14, Lesson 1 & Activity 1 Supplemental Lesson 4 & Activity
CTE-IT.912.9001110.1.14 - Determine deadlines and deliverables for a website project.	Chapter 14, Lesson 1 & Activity 1 Supplemental Lesson 4 & Activity
CTE-IT.912.9001110.1.15 - Discuss Americans with Disabilities Act (ADA) standards for accessibility.	Chapter 13, Lesson 2

CTE-IT.912.9001110.2 - Demonstrate proficiency creating a logical website file structure. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.2.1 - Create an efficient, maintainable directory structure for a website, including the site root and subfolders for assets (e.g., images, templates, CSS).	Chapter 2, Lesson 1 Chapter 6, Lesson 5 Chapter 25, Lesson 4
CTE-IT.912.9001110.2.2 - Demonstrate and use correct file paths for relative, site root relative, and absolute links.	Chapter 5, Lesson 2 Chapter 5, Lesson 4
CTE-IT.912.9001110.2.3 - Apply acceptable and logical website file naming conventions (e.g., index.html, comments.htm, about_us.htm).	Chapter 1, Lesson 3
CTE-IT.912.9001110.2.4 - Examine emerging and new markup languages.	Chapter 1, Lesson 2 Chapter 16, Lesson 3
CTE-IT.912.9001110.2.5 - Determine browser or platform compatibility as it relates to webpage design.	Chapter 17, Lesson 1 Chapter 20, Lesson 1
CTE-IT.912.9001110.2.6 - Identify common DOCTYPEs (e.g., Strict, Transitional and Frameset, and HTML5) and describe their appropriate use.	Chapter 2, Lesson 4
CTE-IT.912.9001110.2.7 - Understand the purpose and placement of Metadata in a website.	Chapter 3, Lesson 1

CTE-IT.912.9001110.3 - Create basic webpages that meet the industry standards as set forth by the W3C (World Wide Web Consortium). The student will be able to:	CITATION(S)
CTE-IT.912.9001110.3.1 - Create basic webpage structures using common markup elements and attributes.	Chapter 3, Lessons 1, 2 Chapter 6, Lesson 1 and throughout the course
CTE-IT.912.9001110.3.2 - Incorporate list structures in a webpage (e.g., ordered, unordered, definition).	Chapter 4, Lesson 3 Chapter 24, Lesson 1
CTE-IT.912.9001110.3.3 - Incorporate hyperlinks in a webpage (e.g., external, internal, email, named anchors, id Attribute).	Chapter 5
CTE-IT.912.9001110.3.4 - Describe the influence of the W3C in the web development industry.	Chapter 1, Lesson 1 Chapter 13, Lesson 2 Chapter 16, Lesson 3 Supplemental Lesson 9
CTE-IT.912.9001110.3.5 - Write proper webpage syntax using tags and attributes that meet the standards set forth by the W3C.	Chapter 1, Lesson 2 Chapter 3, Lessons 1, 2 Chapter 6, Lesson 1 Chapter 13, Lesson 2 and throughout the course
CTE-IT.912.9001110.3.6 - Incorporate common webpage elements and attributes in a webpage (e.g., title, comment tags, id).	Chapter 3, Lessons 1, 2 Chapter 6, Lesson 1 and throughout the course
CTE-IT.912.9001110.3.7 - Differentiate between absolute and relative links used in a webpage.	Chapter 5, Lesson 2
CTE-IT.912.9001110.3.8 - Define and incorporate the target attribute for hyperlinks suitable for its purpose.	Chapter 5, Lesson 4
CTE-IT.912.9001110.3.9 - Use the HTML AUDIO and VIDEO tags to display a media file on the webpages.	Chapter 19, Lessons 2, 3

CTE-IT.912.9001110.4 - Incorporate images and graphical formatting on a webpage. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.4.1 - Describe usage guidelines (e.g., format types, size, relevance) for integrating images and graphics onto a webpage.	Chapter 10, Lesson 1 Chapter 11, Lesson 1
CTE-IT.912.9001110.4.2 - Compare and contrast standard image formats used in webpage design.	Chapter 11, Lesson 1
CTE-IT.912.9001110.4.3 - Incorporate graphics into a webpage design.	Chapter 8, Lesson 2 Chapter 11, Lessons 1, 2, 3
CTE-IT.912.9001110.4.4 - Create and incorporate image maps in a webpage.	Supplemental Lesson 10
CTE-IT.912.9001110.4.5 - Optimize images and graphics for use in a webpage.	Chapter 11, Lesson 1

CTE-IT.912.9001110.5 - Create a basic table structure. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.5.1 - Describe how tables are used in web design.	Chapter 12, Lesson 1
CTE-IT.912.9001110.5.2 - Discuss the advantages and disadvantages of incorporating tables in a webpage design.	Chapter 12, Lesson 1
CTE-IT.912.9001110.5.3 - Define and modify table structures for the presentation of tabular information.	Chapter 12
CTE-IT.912.9001110.5.4 - Create accessible tables using standard table elements and attributes.	Chapter 12, Lesson 3 Chapter 14, Lesson 2 & Activity 2

CTE-IT.912.9001110.6 - Incorporate form structures in a webpage. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.6.1 - Create an accessible form using common elements, including form, fieldset, legend, textarea, select, option, button, labels, and input (radio, checkbox, submit, reset, image, password, hidden).	Supplemental Lesson 11
CTE-IT.912.9001110.6.2 - Describe and diagram the relationship between HTML forms and server-side technologies.	Supplemental Lesson 11
CTE-IT.912.9001110.6.3 - Compare and contrast the GET and POST methods for forms handling.	Supplemental Lesson 11
CTE-IT.912.9001110.6.4 - Define form validation and describe how it is accomplished.	Supplemental Lesson 11
CTE-IT.912.9001110.6.5 - List popular server-side technologies often used to process content sent from HTML forms.	Supplemental Lesson 11
CTE-IT.912.9001110.6.6 - Connect a HTML form to a server-side script for processing.	Supplemental Lesson 11

CTE-IT.912.9001110.7 - Discuss appropriate use of frame structures and their outdated usage. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.7.1 - Discuss using frames and iframe structures and the related security vulnerabilities.	Supplemental Lesson 12
CTE-IT.912.9001110.7.2 - Describe appropriate uses of iframes.	Supplemental Lesson 12

CTE-IT.912.9001110.8 - Understand the basic principles of Cascading Style Sheets CSS. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.8.1 - Define the purpose of CSS and describe its importance in web design.	Chapter 6, Lessons 1, 3, 5
CTE-IT.912.9001110.8.2 - Discuss existing and emerging CSS versions.	Chapter 6, Lesson 1 Chapter 20, Lesson 1
CTE-IT.912.9001110.8.3 - Explain how inheritance and specificity affect CSS rule conflicts.	Chapter 6, Lesson 4
CTE-IT.912.9001110.8.4 - Discuss the different placement of CSS (e.g., inline, external, embedded).	Chapter 6, Lessons 1, 3, 5

CTE-IT.912.9001110.9 - Use CSS to create basic webpages based on industry standards. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.9.1 - Recognize and use element selectors, ID selectors, class selectors, pseudo-class selectors, and descendant selectors.	Chapter 6, Lesson 1 Chapter 7, Lesson 3 Chapters 22 and 23
CTE-IT.912.9001110.9.2 - Explain how inheritance and specificity affect CSS rule conflicts.	Chapter 6, Lesson 4
CTE-IT.912.9001110.9.3 - Use inline, internal and external style sheets.	Chapter 6, Lessons 1, 3, 5
CTE-IT.912.9001110.9.4 - Use the link and import methods to connect to an external style sheet.	Chapter 6, Lesson 5
CTE-IT.912.9001110.9.5 - Apply basic CSS properties (background, border, color, float, font, height, line-height, list-style, margin, overflow, padding, text-align, text-indent, width, padding).	All listed CSS properties are covered across many chapters, including 6, 7, 8
CTE-IT.912.9001110.9.6 - Use CSS to style tables (e.g., borders, width, spacing, alignment, background).	Chapter 12, Lesson 2
CTE-IT.912.9001110.9.7 - Use CSS to enhance the appearance and usability of an HTML form.	Supplemental Lesson 11

CTE-IT.912.9001110.10 - Develop website page layout using AP (Absolute Positioning) elements. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.10.1 - Compare and contrast positioning types on a webpage.	Chapter 9, Lessons 1, 2
CTE-IT.912.9001110.10.2 - Describe the usage of AP elements in a webpage.	Chapter 9, Lessons 1, 2
CTE-IT.912.9001110.10.3 - Incorporate AP elements in a webpage layout using appropriate Div tags.	Chapter 9, Lessons 1, 2
CTE-IT.912.9001110.10.4 - Discuss the benefits and drawbacks of using AP elements for webpage layouts.	Chapter 9, Lessons 1, 2
CTE-IT.912.9001110.10.5 - Determine how the stacking order and z-index impact webpages created with AP elements.	Chapter 9, Lesson 3

CTE-IT.912.9001110.11 - Examine web design technologies and techniques. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.11.1 - Discuss client-side and server-side technologies.	Chapter 13, Lesson 3
CTE-IT.912.9001110.11.2 - Define e-commerce types and usage.	Chapter 13, Lesson 4
CTE-IT.912.9001110.11.3 - Describe database connectivity relative to websites.	Chapter 13, Lesson 3

CTE-IT.912.9001110.12 - Describe the process for publishing a website. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.12.1 - Explore domain name selection process.	Supplemental Lesson 2
CTE-IT.912.9001110.12.2 - Identify process to registering a domain name.	Supplemental Lesson 2
CTE-IT.912.9001110.12.3 - Compare and contrast hosting providers, features, and selection criteria.	Supplemental Lesson 1
CTE-IT.912.9001110.12.4 - Describe the various means for uploading website files (e.g., FTP, web-based tools).	Chapter 15, Lesson 5

CTE-IT.912.9001110.13 - Describe how website performance is monitored and analyzed. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.13.1 - Identify issues related to website maintenance.	Supplemental Lesson 4
CTE-IT.912.9001110.13.2 - Use webpage validation tools.	Supplemental Lesson 9
CTE-IT.912.9001110.13.3 - Describe website performance metrics (e.g., visits, time-on-page, time-on-site) and discuss their design implications.	Supplemental Lesson 9
CTE-IT.912.9001110.13.4 - Demonstrate knowledge of accessibility problems and solutions.	Chapter 13, Lesson 2
CTE-IT.912.9001110.13.5 - Discuss current basic Search Engine Optimization techniques.	Chapter 13, Lesson 4
CTE-IT.912.9001110.13.6 - Explore common website analytic tools.	Supplemental Lesson 9

CTE-IT.912.9001110.14 - Create an informational website that conforms to industry standards as set forth by the W3C. The student	CITATION(S)
CTE-IT.912.9001110.14.1 - Use GUI (Graphical User Interface) web authoring software to create a multi-page informational website.	Chapter 16, Lessons 4, 5
CTE-IT.912.9001110.14.2 - Use image-editing software to enhance website designs with simple graphics.	Chapter 11, Lesson 1 Chapter 14, Lesson 1 & Activity 1 Chapter 14, Lesson 2 & Activity 2
CTE-IT.912.9001110.14.3 - Use animation software to enhance website designs.	Chapter 27, Lesson 3
CTE-IT.912.9001110.14.4 - Enhance the website using client-side technologies (navigation bars, rollover images or text, check plug-ins).	Chapter 18, Lesson 3 Chapter 24 Chapters 25, 26, 27

CTE-IT.912.9001110.15 - Demonstrate efficient, consistent website development practice (use of templates, snippets). The student will be able to:	CITATION(S)
CTE-IT.912.9001110.15. - Produce website designs that would work equally well on various operating systems and platforms, browser versions/configurations, and devices.	Chapter 17, Lesson 1 Chapter 20, Lesson 1

CTE-IT.912.9001110.15.2 - Describe various file formats that can be imported onto a website (tabular data, word processing, presentation, PDFs).	Chapter 11, Lesson 1 Chapter 19, Lessons 1, 3 Supplemental Lesson 5
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CTE-IT.912.9001110.16 - Demonstrate language arts knowledge and skills. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.16.1 - Locate, comprehend and evaluate key elements of oral and written information.	Chapter 13, Lesson 2 Chapter 14, Lesson 3 & Activity 3 Chapter 16, Lessons 1, 3 Supplemental Lesson 4 Activity 4
CTE-IT.912.9001110.16.2 - Draft, revise, and edit written documents using correct grammar, punctuation and vocabulary.	Chapter 14, Lesson 1 & Activity 1 Supplemental Lesson 4 & Activity 4 Supplemental Lesson 7 & Activity 7
CTE-IT.912.9001110.16.3 - Present information formally and informally for specific purposes and audiences.	Chapter 14 Supplemental Lesson 4 & Activity 4 Supplemental Lesson 7 & Activity 7

CTE-IT.912.9001110.17.1 - Demonstrate mathematics knowledge and skills. The student will be able to:	CITATION(S)
CTE-IT.912.9001110.17.2 - Demonstrate knowledge of arithmetic operations.	Chapter 10, Lesson 1 Chapter 27, Lesson 3
32.02 - Analyze and apply data and measurements to solve problems and interpret documents.	Chapter 10, Lesson 1 Supplemental Lesson 1 Supplemental Lesson 9
CTE-IT.912.9001110.17.3 - Construct charts/tables/graphs using functions and data.	Chapter 12