

## CompuScholar, Inc.

### Alignment to Florida "Foundations of Web Design" Course Standards

#### Florida Course Details:

<b>Course Name:</b>	Foundations of Web Design (2020-2021)
<b>Course Code(s):</b>	9001110
<b>Credit:</b>	1
<b>State Standards Link:</b>	<a href="http://www.fldoe.org/core/fileparse.php/19869/urlt/9001100-2021.rtf">http://www.fldoe.org/core/fileparse.php/19869/urlt/9001100-2021.rtf</a>

#### CompuScholar Course Details:

<b>Course Title:</b>	Web Design
<b>Course ISBN:</b>	978-0-9887070-3-0
<b>Course Year:</b>	2019

**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.

### Course Description

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

### Course Standards

<b>15 - Demonstrate proficiency setting website project requirements during the design phase and project planning phase of web development. - The student will be able to:</b>	<b>CITATION(S)</b>
15.01 Define information architecture.	Chapter 13, Lesson 1
15.02 Discuss the importance of information architecture to web design and development.	Chapter 13, Lesson 1
15.03 Conduct a client interview to determine the business purpose and needs.	Supplemental Lesson 4
15.04 Conduct a competitive analysis.	Supplemental Lesson 4
15.05 Describe the activities performed during the design phase and project planning phase of website development.	Chapter 14, Lessons 1 - 3 Supplemental Lesson 4
15.06 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
15.07 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

15.08 Analyze and evaluate global site maps.	Chapter 13, Lesson 1 Chapter 14, Lessons 1 - 2
15.09 Discuss the legal and ethical issues (e.g., copyright laws, obtaining permission, public domain, proper citations) related to web design.	Chapter 16, Lesson 1
15.10 Describe accessibility and its implications on web design.	Chapter 13, Lesson 2
15.11 Identify the client and target audience needs, as well as the purpose of a website.	Chapter 14 Supplemental Lesson 4
15.12 Describe project management responsibilities.	Supplemental Lesson 4 Supplemental Lesson 8
15.13 Define website project scope and scope creep.	Chapter 14 Supplemental Lesson 4
15.14 Determine deadlines and deliverables for a website project.	Chapter 14 Supplemental Lesson 4
15.15 Discuss Americans with Disabilities Act (ADA) standards for accessibility.	Chapter 13, Lesson 2

<b>16 - Demonstrate proficiency creating a logical website file structure. - The student will be able to:</b>	<b>CITATION(S)</b>
16.01 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
16.02 Demonstrate and use correct file paths for relative, site root relative, and absolute links.	Chapter 5, Lesson 2
16.03 Apply acceptable and logical website file naming conventions (e.g., index.html, comments.htm, about_us.htm).	Chapter 1, Lesson 3
16.04 Examine emerging and new markup languages.	Chapter 16, Lesson 3
16.05 Determine browser or platform compatibility as it relates to webpage design.	Chapter 17, Lesson 1 Chapter 20, Lesson 1
16.06 Identify common DOCTYPES (e.g., Strict, Transitional and Frameset, and HTML5) and describe their appropriate use.	Chapter 2, Lesson 4
16.07 Understand the purpose and placement of Metadata in a website.	Chapter 3, Lesson 1

<b>17 - Create basic webpages that meet the industry standards as set forth by the W3C (World Wide Web Consortium). - The student will be able to:</b>	<b>CITATION(S)</b>
17.01 Create basic webpage structures using common markup elements and attributes.	Throughout the course
17.02 Incorporate list structures in a webpage (e.g., ordered, unordered, definition).	Chapter 4, Lesson 3 Chapter 24, Lesson 1
17.03 Incorporate hyperlinks in a webpage (e.g., external, internal, email, named anchors, id Attribute).	Chapter 5

17.04 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
17.05 Write proper webpage syntax using tags and attributes that meet the standards set forth by the W3C.	Throughout the course
17.06 Incorporate common webpage elements and attributes in a webpage (e.g., title, comment tags, id).	Throughout the course
17.07 Differentiate between absolute and relative links used in a webpage.	Chapter 5, Lesson 2
17.08 Define and incorporate the target attribute for hyperlinks suitable for its purpose.	Chapter 5, Lesson 4
17.09 Use the HTML AUDIO and VIDEO tags to display a media file on the webpages.	Chapter 19, Lessons 2 - 3

<b>18 - Incorporate images and graphical formatting on a webpage. - The student will be able to:</b>	<b>CITATION(S)</b>
18.01 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
18.02 Compare and contrast standard image formats used in webpage design.	Chapter 11, Lesson 1
18.03 Incorporate graphics into a webpage design.	Chapter 8, Lesson 2 Chapter 11, Lessons 1 - 3
18.04 Create and incorporate image maps in a webpage.	Supplemental Lesson 10
18.05 Optimize images and graphics for use in a webpage.	Chapter 11, Lesson 1

<b>19 - Create a basic table structure. - The student will be able to:</b>	<b>CITATION(S)</b>
19.01 Describe how tables are used in web design.	Chapter 12, Lesson 1
19.02 Discuss the advantages and disadvantages of incorporating tables in a webpage design.	Chapter 12, Lesson 1
19.03 Define and modify table structures for the presentation of tabular information.	Chapter 12
19.04 Create accessible tables using standard table elements and attributes.	Chapter 12, Lesson 3 Chapter 14, Lesson 2

<b>20 - Incorporate form structures in a webpage. - The student will be able to:</b>	<b>CITATION(S)</b>
20.01 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
20.02 Describe and diagram the relationship between HTML forms and server-side technologies.	Supplemental Lesson 11

20.03 Compare and contrast the GET and POST methods for forms handling.	Supplemental Lesson 11
20.04 Define form validation and describe how it is accomplished.	Supplemental Lesson 11
20.05 List popular server-side technologies often used to process content sent from HTML forms.	Supplemental Lesson 11
20.06 Connect a HTML form to a server-side script for processing.	Supplemental Lesson 11

<b>21 - Discuss appropriate use of frame structures and their outdated usage. - The student will be able to:</b>	<b>CITATION(S)</b>
21.01 Discuss using frames and iframe structures and the related security vulnerabilities.	Supplemental Lesson 12
21.02 Describe appropriate uses of iframes.	Supplemental Lesson 12

<b>22 - Understand the basic principles of Cascading Style Sheets CSS. - The student will be able to:</b>	<b>CITATION(S)</b>
22.01 Define the purpose of CSS and describe its importance in web design.	Chapter 6, Lesson 1
22.02 Discuss existing and emerging CSS versions.	Chapter 6, Lesson 1 Chapter 20, Lesson 1
22.03 Explain how inheritance and specificity affect CSS rule conflicts.	Chapter 6, Lesson 4
22.04 Discuss the different placement of CSS (e.g., inline, external, embedded).	Chapter 6, Lessons 1, 3, 5

<b>23 - Use CSS to create basic webpages based on industry standards. – The student will be able to:</b>	<b>CITATION(S)</b>
23.01 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
23.02 Explain how inheritance and specificity affect CSS rule conflicts.	Chapter 6, Lesson 4
23.03 Use inline, internal and external style sheets.	Chapter 6, Lessons 1, 3, 5
23.04 Use the link and import methods to connect to an external style sheet.	Chapter 6, Lesson 5
23.05 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 lessons
23.06 Use CSS to style tables (e.g., borders, width, spacing, alignment, background).	Chapter 12, Lesson 2
23.07 Use CSS to enhance the appearance and usability of an HTML form.	Supplemental Lesson 11

<b>24 - Develop website page layout using AP (Absolute Positioning) elements. - The student will be able to:</b>	<b>CITATION(S)</b>
24.01 Compare and contrast positioning types on a webpage.	Chapter 9, Lessons 1 - 2
24.02 Describe the usage of AP elements in a webpage.	Chapter 9, Lessons 1 - 2
24.03 Incorporate AP elements in a webpage layout using appropriate Div tags.	Chapter 9, Lessons 1 - 2
24.04 Discuss the benefits and drawbacks of using AP elements for webpage layouts.	Chapter 9, Lessons 1 - 2
24.05 Determine how the stacking order and z-index impact webpages created with AP elements.	Chapter 9, Lesson 3

<b>25 - Examine web design technologies and techniques. - The student will be able to:</b>	<b>CITATION(S)</b>
25.01 Discuss client-side and server-side technologies.	Chapter 13, Lesson 3
25.02 Define e-commerce types and usage.	Chapter 13, Lesson 4
25.03 Describe database connectivity relative to websites.	Chapter 13, Lesson 3

<b>26 - Describe the process for publishing a website. - The student will be able to:</b>	<b>CITATION(S)</b>
26.01 Explore domain name selection process.	Supplemental Lesson 2
26.02 Identify process to registering a domain name.	Supplemental Lesson 2
26.03 Compare and contrast hosting providers, features, and selection criteria.	Supplemental Lesson 1
26.04 Describe the various means for uploading website files (e.g., FTP, web-based tools).	Chapter 15, Lesson 5

<b>27 - Describe how website performance is monitored and analyzed. - The student will be able to:</b>	<b>CITATION(S)</b>
27.01 Identify issues related to website maintenance.	Supplemental Lesson 4
27.02 Use webpage validation tools.	Supplemental Lesson 9
27.03 Describe website performance metrics (e.g., visits, time-on-page, time-on-site) and discuss their design implications.	Supplemental Lesson 9
27.04 Demonstrate knowledge of accessibility problems and solutions.	Chapter 13, Lesson 2
27.05 Discuss current basic Search Engine Optimization techniques.	Chapter 13, Lesson 4

27.06 Explore common website analytic tools.	Supplemental Lesson 9
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<b>28 - Create an informational website that conforms to industry standards as set forth by the W3C. - The student will be able to:</b>	<b>CITATION(S)</b>
28.01 Use GUI (Graphical User Interface) web authoring software to create a multi-page informational website.	Chapter 16, Lesson 5
28.02 Use image-editing software to enhance website designs with simple graphics.	Chapter 11, Lesson 1 Chapter 14, Lessons 1 - 2
28.03 Use animation software to enhance website designs.	Chapter 27, Lesson 3
28.04 Enhance the website using client-side technologies (navigation bars, rollover images or text, check plug-ins).	Chapter 24, Lessons 1 - 3 Chapter 25, Lessons 1 - 2 Chapters 26 and 27

<b>29 - Demonstrate efficient, consistent website development practice (use of templates, snippets). - The student will be able to:</b>	<b>CITATION(S)</b>
29.01 Produce website designs that would work equally well on various operating systems and platforms, browser versions/configurations, and devices.	Chapter 20, Lesson 1
29.02 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

<b>30 - Demonstrate language arts knowledge and skills. - The student will be able to:</b>	<b>CITATION(S)</b>
30.01 Locate, comprehend and evaluate key elements of oral and written information.	Chapter 13, Lesson 2 Chapter 14, Lesson 3 Chapter 16, Lessons 1, 3
30.02 Draft, revise, and edit written documents using correct grammar, punctuation and vocabulary.	Supplemental Lesson 4 Supplemental Lesson 7
30.03 Present information formally and informally for specific purposes and audiences.	Chapter 14 Supplemental Lesson 4

<b>31 - Demonstrate mathematics knowledge and skills. - The student will be able to:</b>	<b>CITATION(S)</b>
31.01 Demonstrate knowledge of arithmetic operations.	Chapter 10, Lesson 1
31.02 Analyze and apply data and measurements to solve problems and interpret documents.	Chapter 10, Lesson 1 Supplemental Lesson 1 Supplemental Lesson 9
31.03 Construct charts/tables/graphs using functions and data.	Chapter 12