

# Web Design (2021)

Demonstrate employability skills required by business and industry. [IT-WD 1](#)

**IT-WD 1.1** Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities. [IT-WD 1.1](#)

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**IT-WD 1.2** Demonstrate creativity by asking challenging questions and applying innovative procedures and methods. [IT-WD 1.2](#)

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**IT-WD 1.3** Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations. [IT-WD 1.3](#)

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**IT-WD 1.4** Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity. [IT-WD 1.4](#)

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**IT-WD 1.5** Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills. [IT-WD 1.5](#)

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**IT-WD 1.6** Present a professional image through appearance, behavior and language. [IT-WD 1.6](#)

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Plan, develop, implement, and resolve ethical issues involved in creating and publishing a web site. [IT-WD 2](#)

**IT-WD 2.1** Define key terms in site development: cloud computing, versions of HTML, CSS, design consistency, deprecated tags, wire framing/layout design, hyperlinks. [IT-WD 2.1](#)

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**IT-WD 2.2** Develop a logical argument for using cloud computing and the various web hosting platforms for business and personal use. [IT-WD 2.2](#)

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**IT-WD 2.3** Describe and illustrate different versions of HTML and the development of HTML. [IT-WD 2.3](#)

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**IT-WD 2.4** Describe the phases of web development (life cycle) and provide specific tasks for each phase. [IT-WD 2.4](#)

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**IT-WD 2.5** Use flowcharts/storyboards to design a web site. [IT-WD 2.5](#)

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**IT-WD 2.6** Identify essential web site navigation issues that help ensure site usability (consistency, intuitive text/icons, and breadcrumbs). [IT-WD 2.6](#)

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**IT-WD 2.7** Describe ethical, government, and accessibility standards & W3C standards (readability, usability, browser compatibility, and copyright issues related to use of digital media). [IT-WD 2.7](#)

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**IT-WD 2.8** Identify technologies available to enhance the user's experience, including programming languages and multimedia technologies. [IT-WD 2.8](#)

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Create documents using a variety of tags following coding practices commonly used to create web pages. [IT-WD 3](#)

**IT-WD 3.1** Identify basic HTML document (web page) layout & tags used to create web pages according to industry standards (e.g., header, footer, side bar, main content, navigation/menu bar, tabs/drop downs). [IT-WD 3.1](#)

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**IT-WD 3.2** Demonstrate ability to create a web site utilizing the latest version of HTML (e.g., headings, paragraphs, breaks, lists, links, images, horizontal rules, divs) [IT-WD 3.2](#)

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**IT-WD 3.3** Demonstrate ability to format text using proper tags set by the W3C (strong, emphasize). [IT-WD 3.3](#)

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**IT-WD 3.4** Demonstrate ability to use tables to control the layout and appearance of data. [IT-WD 3.4](#)

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**IT-WD 3.5** Demonstrate ability to create forms that accepts user inputs [IT-WD 3.5](#)

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**IT-WD 3.6** Demonstrate understanding of the importance of validating web sites and tools available for the process. [IT-WD 3.6](#)

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Create and use graphics to enhance web pages using a variety of tools. [4.1 4.2 4.34.4 IT-WD 4](#)

**IT-WD 4.1** Identify and use design and color principles appropriate for graphics and web pages. [IT-WD 4.1](#)

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**IT-WD 4.2** Describe the image formats used within a web page (gif, jpg, png, image maps) and describe appropriate use of which format. [IT-WD 4.2](#)

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**IT-WD 4.3** Add images to a web page to enhance meaning of web content. [IT-WD 4.3](#)

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**IT-WD 4.4** Explore online tools and downloadable software available to create and edit still and animated graphics [IT-WD 4.4](#)

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Define and apply essential aspects of the Cascading Style Sheets to format elements within a web site. [IT-WD 5](#)

**IT-WD 5.1** Use knowledge of how and why style sheets are used in web design to explain design elements of a web site. [IT-WD 5.1](#)

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**IT-WD 5.2** Create and modify internal and external style sheets to format the styling of text, layout tables, content flow, positioning of objects. [IT-WD 5.2](#)

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**IT-WD 5.3** Design web pages utilizing CSS to manage text flow using regions, columns, and graphical interfaces. [IT-WD 5.3](#)

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Use (Graphic User-Interface) GUI-based HTML editing software to create web sites. IT-WD 6

**IT-WD 6.1** Explain the differences between the types of editing software and when to editing software: text, object, and WYSIWYG (What You See Is What You Get). IT-WD 6.1

**IT-WD 6.2** Design web sites using a GUI-based editor following the design principles to enable navigation, usability, and accessibility. IT-WD 6.2

**IT-WD 6.3** Explore advanced layouts & scripting tools available through GUI-based editors such as widgets, image sliders, etc IT-WD 6.3

**IT-WD 6.4** Create a website which implements tables. IT-WD 6.4

**IT-WD 6.5** Create and use interactive forms on a web site. IT-WD 6.5

**IT-WD 6.6** Design and implement layers, image maps, and navigation bars. IT-WD 6.6

**IT-WD 6.7** Enhance a website with media objects and images. IT-WD 6.7

Develop an understanding of e-commerce practices and related technologies necessary to create a secure, useful interface to conduct business online. 7.1 7.2 7.3 7.4 IT-WD 7

**IT-WD 7.1** Develop a working e-commerce vocabulary including e-business, mobile commerce, branding, market space, business model (B2B, B2C), security, payment options. IT-WD 7.1

**IT-WD 7.2** Explain the importance of branding and establishing a color palette for an e-business to create an online presence. IT-WD 7.2

**IT-WD 7.3** Explain the importance of using web design principles to meet customer expectations. IT-WD 7.3

**IT-WD 7.4** Explain the benefits of configuring a site to mobile standards currently used further the accessibility of an e-business. IT-WD 7.4

Test, analyze, and identify performance issues related to publishing and maintaining web sites. IT-WD 8

**IT-WD 8.1** Identify essential issues in developing and maintaining a web site, including project management, testing, legal issues. IT-WD 8.1

**IT-WD 8.2** Identify strategies commonly used for managing a user's experience and improving site creativity and aesthetic qualities. IT-WD 8.2

**IT-WD 8.3** Explore options for publishing a web site and web hosting. IT-WD 8.3

**IT-WD 8.4** Identify the benefits and drawbacks of running your own web server versus using a service provider. IT-WD 8.4

**IT-WD 8.5** Plan and deliver oral presentations of a web site explaining the developmental process before, during, and after site completion to a potential customer. IT-WD 8.5

Explore how related student organizations

**IT-WD 9.1** Explain the goals, mission, and objectives of Future Business Leaders of America. IT-WD 9.1

are integral parts of career and technology education courses through leadership development, school and community service projects, entrepreneurship development, and competitive events. IT-

WD 9

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- IT-WD 9.2** Explore the impact and opportunities a student organization (FBLA) can develop to bring business and education together in a positive working relationship through innovative leadership and career development programs. IT-WD 9.2
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- IT-WD 9.3** Explore the local, state, and national opportunities available to students through participation in related student organization (FBLA) including but not limited to conferences, competitions, community service, philanthropy, and other FBLA activities. IT-WD 9.3
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- IT-WD 9.4** Explain how participation in career and technology education student organizations can promote lifelong responsibility for community service and professional development. IT-WD 9.4
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- IT-WD 9.5** Explore the competitive events related to the content of this course and the required competencies, skills, and knowledge for each related event for individual, team, and chapter competitions. IT-WD 9.5