

Course Learning Outcomes

100% of the curriculum learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s). The following outcomes will be addressed in the course:

- Identify key internet technologies, standards and organizations
- Describe the client/server architecture of the internet, explaining the request-response life-cycle
- Explain the structure of the HTML DOM (Document Object Model), identifying parent-child and sibling relationships
- Build valid HTML pages that use best practices for layout, navigation, tables, forms, images and multimedia
- Write CSS to layout, format, and enhance the display of a web page applying industry best practices
- Add interactivity and dynamic content to webpages using JavaScript
- Develop web pages that alter the visual presentation appropriately for devices of various sizes
- Identify accessibility barriers in website design and development
- Apply a current industry web development framework or library to development of a website
- Use a source code management tool to maintain a website
- Retrieve, insert, update, and delete data within a database
- Identify database-driven web application tools that manage a database

Assessments

To obtain Articulated College Credit, students will complete the following:

1. Successful completion of the course showing the full range of grasping the course concepts and principles with a grade of **B or better**.
2. A final project must also be completed.
3. End-of-course assessment(s) or technical skill assessment(s) completed with a grade of **B or better**.
4. Teachers/faculty may use the recommended technical skill assessments listed in a course(s) singly or together to achieve assessing student learning in the course outcomes.

Recommended Industry-Recognized Certification or Comprehensive Assessments - College

Certification or Assessment	Vendor	Other Information
To Be Determined		

Recommended Industry-Recognized Certification or Comprehensive Assessments – High School

Certification or Assessment	Vendor	Other Information
AP Computer Science	Advanced Placement	www.collegeboard.org

Sample Project #1	
Guidelines	Score
Must include a first page that you created and is named: index.html.	
Must include a minimum of 2 additional pages that you personally created.	
Your three-pages must be inter-linked and should include back links to get to the previous page.	
Must include a working email link	
Must include an html table on at least one of the pages.	
Must include 2 or more images on the site.	
Must include at least 2 links to other websites.	
Web site must also include text content (information). The content must include some formatting such as headings, lists, centering bold, paragraphs, etc. Use your own judgment to improve the looks of your site.	
Must include text formatting using HTML and CSS	
Web site should include some logical comments in your html code (using the <! - - your comment - - > tag)	
Your site should have a purpose or theme (tell about yourself or something like that).	
Your site should be in working order. Make sure that all of the links work and that any image files are included and show up on the page.	
Sample Project #2	
Minimum Requirements	Score/Comments
Map Layout of the site	
Create minimum of 5 .htm pages inside one folder	
Titles of pages (not file name) match content of pages	
Metatags (at Minimum Keywords, Author, and Description) used in each <head>	
Have at least 8 images (gif, jpg, or png file format). Must have alt, width, height	
Create two lists (ordered, unordered, or definition list)	
Create at least two tables	
Site information in footer (copyright, contact information, updated date, etc.)	
Style Sheets: Four inline or local styles; one embedded style sheet with <head>. Must have at least four style rules; one external style sheet (.css) attached to at least two pages. Must have at least four style rules.	
Create one small form with four different input elements (radio buttons, checkboxes, text, password, text area, drop down options, etc.)	
Site proofed and spell checked.	
Nice use of color and readability.	
Site is: organized; readable; creative; additional work beyond requirements.	

Commented [gk1]: 6/24 - Sample Projects #1 & #2 are not required; just Sample Projects shared by faculty to teachers