

Career & Technical Education
Curriculum Alignment with
Common Core ELA & Math Standards

HTML Web Page
Development

Course Title **110801 - HTML Web Page Development**

Grade Levels 10-12

Credit Value 1

Description Web Page Design using HTML will be introduced. Creating web documents using a simple text editor will be the main focus. How to use a simple web editor will also be covered. Features such as layout, tables, images, forms, frames and the incorporation of sound and video will be explored. Developing site specifications and methods to increase the appeal and effectiveness of web sites are included. How to prepare web documents appropriate for use in business and professional web sites will be covered.

Also, this course introduces CSS and emphasizes W3C web design and accessibility standards.

Prerequisites Computer Literacy IT

Unit Title Developing A Website Design Plan

Technical Content

Plan the layout of a website.

National Standards

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes

Students use digital media and environments to communicate and work collaboratively, including at a distance,

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make

Students demonstrate a sound understanding of technology concepts, systems, and operations.

KY Core Academic Standards (Big Idea)

Information, Communication and Productivity - Technology

Students demonstrate a sound understanding of the nature and operations of technology systems. Students use technology to learn, to communicate, increase productivity and become competent users of technology.

Students manage and create effective oral, written and multimedia communication in a variety of forms and contexts.

Research, Inquiry/Problem-Solving and Innovation - Technology

Students understand the role of technology in research and experimentation. Students engage technology in developing solutions for solving problems in the real world. Students will use technology for original creation and innovation.

Career Awareness, Exploration, Planning - Vocational Studies

Career awareness, exploration and planning gives students the opportunity to discover the various career areas that exist and introduce them to the realities involved with the workplace. Many factors need to be considered when selecting a career path and preparing for employment. Career awareness, exploration and planning will enable students to recognize the value of education, learn how to plan for careers and integrate academic subjects.

Employability Skills - Vocational Studies

Employability skills will focus on student's competencies with their work habits and academic/technical skills that will impact an individual's success in school and workplace. School-to-work transition skills will help students develop interpersonal skills and positive work habits.

English/Language Arts Common Core Standards

CC.9-10.L.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grades 9–10 reading and content, choosing flexibly from a range of strategies.

CC.9-10.L.4.a Vocabulary Acquisition and Use: Use context (e.g., the overall meaning of a sentence, paragraph, or text; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.

CC.11-12.L.4 Vocabulary Acquisition and Use: Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grades 11–12 reading and content, choosing flexibly from a range of strategies.

CC.11-12.L.4.a Vocabulary Acquisition and Use: Use context (e.g., the overall meaning of a sentence, paragraph, or text; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.

CC.9-10.W.4 Production and Distribution of Writing: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)

CC.11-12.W.4 Production and Distribution of Writing: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)

Technical Literacy Standards

Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.

By the end of 9th-12th grades, read and comprehend literary nonfiction in the grades 9-12 text complexity band proficiently, with scaffolding as needed at the high end of the range.

Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

Mathematics Common Core Standards

CC.9-12.A.REI.1 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

Learning Targets

Sample Learner Activities

How to storyboard a web page/site.

The use of templates in page/site design.

Accessibility standards.

Browser compatibility.

File management.

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| | Also, this course introduces CSS and emphasizes W3C web design and accessibility standards. | | | | |
| Prerequisites | Computer Literacy IT | | | | |
| Unit Title | <u>Introduction to HTML</u> | | | | |

Technical Content

Usse HTML (Hypertext Markup Language).

National Standards

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Technical Literacy Standards

Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

By the end of grades 9-12, read and comprehend science/technical texts in the grades 11-CCR text complexity band independently and proficiently.

Mathematics Common Core Standards

CC.9-12.A.REI.1 Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

Learning Targets

Sample Learner Activities

Overview of HTML.

Compare HTML and XHTML.

Explore the use of text editors and web creation software.

Nested elements.

Attributes.

Headings.

Paragraphs.

Formatting.

Styles.

Lists.

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Prerequisites Computer Literacy IT

Unit Title **CSS Basics**

Technical Content

Uss CSS (Cascading Style Sheets).

National Standards

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Learning Targets

Sample Learner Activities

Use inline, embedded, and external CSS.

Using CSS selectors adn delcarations.

Selecting and formatting fonts with CSS.

Text properties with CSS.

Working with headings.

The difference between block and inline level elements.

Color selection and the web color palette.

CSS Class, ID, and contextual selectors.

Styling HTML structural elements - header, section, nav, footer.

Using the box model.

Margins and padding with CSS.

Borders with CSS.

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Prerequisites Computer Literacy IT

Unit Title Using Links

Technical Content

Plan the layout of a website.

National Standards

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Technical Literacy Standards

Integrate information from diverse sources, both primary and secondary, into a coherent understanding of an idea or an event, noting discrepancies among sources.

Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

Learning Targets

Sample Learner Activities

| |
|---|
| How to create a text link. |
| How to create an e-mail link. |
| The target and name attributes. |
| Style link with CSS. |
| Opening links in new windows/tabs. |
| Use IDs and anchors to link to sections on a web page and to multiple web page. |

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| Prerequisites | Computer Literacy IT | | | | |
| Unit Title | <u>Web Graphics</u> | | | | |

Technical Content

Use multimedia in the creation of a website (such as images, sound, and video).

National Standards

Students use digital media and environments to communicate and work collaboratively, including at a distance,
 Students understand human, cultural, and societal issues related to technology and practice legal and ethical
 Students demonstrate a sound understanding of technology concepts, systems, and operations.

KY Core Academic Standards (Big Idea)

Information, Communication and Productivity - Technology

Students demonstrate a sound understanding of the nature and operations of technology systems. Students use technology to learn, to communicate, increase productivity and become competent users of technology.
 Students manage and create effective oral, written and multimedia communication in a variety of forms and contexts.

Safety and Ethical/Social Issues - Technology

Students understand safe and ethical/social issues related to technology. Students practice and engage in safe, responsible and ethical use of technology. Students develop positive attitudes toward technology use that supports lifelong learning, collaboration, personal pursuits and productivity.

Employability Skills - Vocational Studies

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Integrate information from diverse sources, both primary and secondary, into a coherent understanding of an idea or an event, noting discrepancies among sources.

Mathematics Common Core Standards

CC.9-12.G.CO.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on

Learning Targets

Sample Learner Activities

Image types (JPG, BMP, TFF, PNG, RAW, PSD).

How to obtain images legally.

inserting an image.

Image alignment.

Using an image as a background.

Using images as links.

Image maps.

Image captions.

Optimizing a photo for the web.

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Also, this course introduces CSS and emphasizes W3C web design and accessibility standards.

Prerequisites Computer Literacy IT

Unit Title Page Layout

Technical Content

Use HTML and CSS in page layout.

National Standards

Students use digital media and environments to communicate and work collaboratively, including at a distance, Students demonstrate a sound understanding of technology concepts, systems, and operations.

KY Core Academic Standards (Big Idea)

Information, Communication and Productivity - Technology

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Mathematics Common Core Standards

CC.9-12.F.BF.1 Write a function that describes a relationship between two quantities.*

Learning Targets

Sample Learner Activities

| |
|--|
| Creating lists - ordered, unordered, and definition lists. |
| Using tables for page layout. |
| Using relative and absolute position. |
| Defining page size. |
| Using the div element. |
| Using the float element. |
| Using overflow. |
| Using CSS two-column page layout. |
| CSS interactivity with pseudo-classes. |
| CSS for print. |

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Prerequisites Computer Literacy IT

Unit Title Table Basics

Technical Content

Create lists and tables in organizing content.

National Standards

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KY Core Academic Standards (Big Idea)

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Mathematics Common Core Standards

CC.9-12.F.IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*

Learning Targets

Sample Learner Activities

Table elements - rows, cells, and headers.

Spanning rows and columns.

Style a table with CSS.

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Prerequisites Computer Literacy IT

Unit Title Forms

Technical Content

Create web forms.

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Mathematics Common Core Standards

CC.9-12.F.IF.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*

Learning Targets

Sample Learner Activities

Form elements.

Submit and reset buttons.

checkbox and radio buttons.

Hidden fields and password boxes.

Textarea element.

Format a form using tables.

Select an option elements.

Label element.

Fieldset and legend elements.

Style a form with CSS.

HTML form controls - datalist, search box, calendar control, color picker control.

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Prerequisites Computer Literacy IT

Unit Title Multimedia Basics

Technical Content

Use multimedia in the creation of a website (such as images, sound, and video).

National Standards

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Learning Targets

Sample Learner Activities

| |
|--|
| Configure sound and video. |
| Audio, video, and flash with the object element. |
| HTML audio, video, and embed elements. |
| Web publishing basics. |
| Registering a domain name. |
| Choosing a web host. |
| Publish with File Transfer Protocol (FTP) and other file transfer tools. |
| Search engine submission and optimization. |
| Accessibility and usability testing. |