UNIT PLAN

**Course Number:** 071-001 through 071-003 and 071-002 through 072-003

**Discipline:** Technology

**Grade Level:** 9-12

**Course Length:** 1 Semester

**Credits:** 3

## Course Description:

The purpose of this course is to prepare you for a future where you can properly harness fundamental Web design skills. The course covers Hypertext Markup Language (HTML), CSS Style Sheets and introduces students to Dreamweaver, Photoshop and PDF writer as it pertains to Web Design. Students will learn project management skills while working on peer group activities and independent assignments. Major projects will focus on Design skills in Photoshop and building a portfolio Website. Many professions value an employee who is proficient in the basics of HTML, Adobe Dreamweaver and Photoshop. This class will provide you with the skills necessary to apply these technologies in such a way that you could use them to create educational and personal projects on your own time.

## School-Wide Student Expectations:

**Problem Solving**, The student's problem solving exhibits all of the following:
* Identifies and describes the problem
* Draws information from a variety of sources
* Addresses all essential conditions of the problem
* Presents correct work or computation with evidence of reflection checking
* Shows understanding of underlying concepts and procedures
* Presents strong supporting arguments and/or facts with great clarity and organization

**Writing,** The student's writing exhibits all of the following:
* Convention of proper usage for academic writing
* An understanding of audience through word choice, vocabulary, tone and style

## Unit:  Introduction to HTML

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| **Enduring Understanding** | Students will understand the following steps for Introduction to HTML:<br><br>- What is an HTML file<br>- Understand how tags work in HTML<br>- Write and read basic HTML<br>- Accessible HTML<br>- How an HTML document is viewed as a Web page & File Structure<br>- How HTML and CSS work together<br><br>1. Students will be able to explain in a Google Doc and presenting a visual example on the Web of what is an HTML file.<br><br>2. Students will understand how tags work in HTML and when and where to apply HTML tags.<br><br>3. Students will be able to write and read basic HTML to create individual Web pages to create a practice Web site. |
| **Essential Questions** | - Will a dog sit if you say down?<br><br>- If someone can not speak Spanish can they read Spanish? |
| **Unit Objectives** | - What is an HTML file<br>9-12.CAS.c.7<br>9-12.DTC.b.1<br>9-12.CT.d.2<br>9-12.CT.d.7<br>- Understand how tags work in HTML<br>9-12.CT.d.3<br>- Write and read basic HTML<br>9-12.CT.d.4<br>9-12.CT.b.2<br>9-12.CT.b.3<br>- Accessible HTML<br>9-12.CAS.c.1<br>9-12.CT.b.5<br>- How an HTML document is viewed as a Web page & File Structure<br>9-12.CS.a.5<br>9-12.CS.b.1<br>- How HTML and CSS work together<br>9-12.CT.b.4 |

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| **Assessment Activities** | File Structure, Pre & Post Assessment: https://docs.google.com/a/natickps.org/forms/d/e/1FAIpQLSfrO6vmAFRXKqvMVK-_rC2s0K-pyY_jCi1uGFNuR02m-NgPAQ/viewform (Post-Assessment exam review is provided through Socrative teacher) - - - HTML & CSS Unit Exam (given at end of CSS Unit) https://docs.google.com/a/natickps.org/forms/d/1VhQfaWSXoExnAgwy90ViQa9n9DIzGe6Wyisyvui3EIs/edit |
| **Vocabulary** | Attribute, Code, Coding, Computational Artifact, Debugging, HTML, Internet, IP Address, Library/Code Library, Table, WWW - - - HTML file, HTML tags, HTML documents, Web pages, <header>,<body>,<html>, headings, background image, background color, <div><title>, <p>, <a href>, <img src>, <ul>, <ol>, <table>, |

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| **Project Based Learning Activities** | Activities<br>Codecademy:<br>http://mrscullen.com/images/<br>wd_codecademyassignment.pdf<br>- - -<br>HTML Worksheet, W3Schools:<br>https://docs.google.com/document/d/<br>1q4P3DRFw11SuWYHWes7xU_-<br>k1cRcV7KZqwhZ1ILJOJ0/edit<br><br>Learning Resources<br>Text Edit Preferences:<br>http://mrscullen.com/anderson/images/<br>TextEditPreferencesforHTML.pdf<br>- - -<br>HTML Tag Cheatsheet:<br>http://mrscullen.com/anderson/images/HTML-<br>Cheatsheet-Skillcrush.pdf<br>- - -<br>HTML5 Tag Cheatsheet:<br>http://mrscullen.com/anderson/images/HTML5-<br>Cheatsheet-Skillcrush.pdf<br>- - -<br>Saving Images for Web:<br>http://mrscullen.com/anderson/images/<br>saveforwebinphotoshop.pdf<br>- - -<br>HTML Handbook<br>http://mrscullen.com/images/<br>htmlhandbook_bysu.pdf<br><br>Videos to Inspire<br>Let's Teach Kids to Code:<br>https://www.youtube.com/watch?<br>v=Ok6LbV6bqaE<br>- - -<br>What Most Schools Don't Teach<br>https://www.youtube.com/watch?<br>feature=player_embedded&v=nKIu9yen5nc |
| **School Wide Student Learning Expectations** | **Problem Solving**, The student's problem solving exhibits all of the following:<br>* Identifies and describes the problem<br>* Draws information from a variety of sources<br>* Addresses all essential conditions of the problem<br>* Presents correct work or computation with evidence of reflection checking<br>* Shows understanding of underlying concepts and procedures<br>* Presents strong supporting arguments and/or facts with great clarity and organization |

| | **Writing,** The student's writing exhibits all of the following:<br>* Convention of proper usage for academic writing<br>* An understanding of audience through word choice, vocabulary, tone and style |
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