

UNIT PLAN

Course Number: 469a-001

Discipline: Computer Science (Media Arts)

Grade Level: 9-12

Course Length: 1 Semester

Credits: 3

Course Description:

The purpose of this course is to prepare students for a future where they can properly harness advance Web design skills. The course covers advance Hypertext Markup Language (HTML) and CSS Style Sheets, as well as advance topics in Dreamweaver and Photoshop as it pertains to Web Design. The course will also introduce students to Adobe Acrobat. Acrobat will provide them with the tools to create an E-portfolio, which will be used to showcase their work when applying to colleges or jobs. Students will complete peer group activities and independent projects. They will create 2 Websites, one class Website and one educational site for a teacher outside of the NHS Web Design program, each which will serve a different purpose and audience. Many professions value an employee who is proficient and advance in HTML, CSS, Adobe Dreamweaver and Photoshop. This class will provide them with the skills necessary to use these technologies in such a way that they would be confident in adding them to their resume.

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: Dreamweaver/HTML & CSS

Enduring Understanding	<p>Students will understand the following steps for working in Dreamweaver to produce intermediate level HTML & CSS files:</p> <ul style="list-style-type: none">- Website layout using HTML5- Creating a file which adjusts to screen size (media queries)- Accessible Accessories: responsive nav, slippery slideshow, creative links, Nav stick, DW Template, SEO- Working from Bootstrap- Working from SMINT <ol style="list-style-type: none">1. Students will work in a group to successfully create/complete a Website displaying adv. feature of Adobe Dreamweaver.2. Students will be able to create a .html/.css resource which can be used in the future as an educational tool.3. Students will be able to carry over planning stages of a group Website into the building and developing phase.4. Students will be able to develop project management skills which include organization, communication, time management and structure.
Essential Questions	<ul style="list-style-type: none">- How does working in a group setting to achieve a common goal compare to the morning commute?

<p>Unit Objectives</p>	<ul style="list-style-type: none"> - Layout using HTML5 <ul style="list-style-type: none"> 9-12.CAS.c.7 9-12.DTC.b.1 9-12.CT.d.2 9-12.CT.d.7 - Design for Size (media queries) <ul style="list-style-type: none"> 9-12.CAS.c.1 9-12.CAS.c.4 9-12.DTC.a.1 9-12.DTC.b.1 - Accessible Accessories <ul style="list-style-type: none"> 9-12.CAS.c.3 9-12.CAS.c.4 9-12.CAS.c.6 9-12.CS.b.1 9-12.CS.c.1 9-12.CS.c.3 - Bootstrap <ul style="list-style-type: none"> 9-12.DTC.a.1 9-12.CAS.c.3 9-12.CAS.c.4 9-12.CAS.c.6 - SMINT <ul style="list-style-type: none"> 9-12.DTC.a.1 9-12.CAS.c.3 9-12.CAS.c.4 9-12.CAS.c.6
<p>Assessment Activities</p>	<p>Pre-Assessment, What Do You Remember (html & css): https://docs.google.com/a/natickps.org/forms/d/e/1FAIpQLScbXzMNVkNarDjJlMxJuGdRIucmriJLhA3cAB0wjxreu93MKQ/viewform</p> <p>- - -</p> <p>Recreating mrscullen.com: https://drive.google.com/drive/folders/0B3AB6Jav56VpUS1JWTVnb1Z3VzQ</p> <p>- - -</p> <p>Dreamweaver/HTML & CSS Unit Exam: https://docs.google.com/a/natickps.org/forms/d/1jFQJAUh0u49IRuED4ew1FtzdsAVPLGfgC9kdNAPCKvE/edit</p>

Vocabulary

Algorithm, Attribute, Authentication, Bandwidth, Browser Cookie, Code, Coding, Class, Computational Artifact, Data Structure, Debugging, Digital Privacy, Digital Safety, HTML, Internet, IP Address, Library/Code Library, Lifelong Learning, Problem Domain, Proprietary Software License, Server, Table, Variable, WWW,
- - -
HTML5, CSS3, Responsive Nav, Media Queries, Slippry Slideshow, Bootstrap, SMINT, Nav Stick, Z-Index, Position, Template, SEO

Project Based Learning Activities

Activities:

Creating a Bootstrap Page:

Resource #1:

<http://getbootstrap.com/>

Resource #2:

<http://natickhighwebdesign.com/advanceclassspring2015/bootstrap.html>

Example:

<https://docs.google.com/document/d/1Pv4Ne51DAXsCV8nC-vljzdU1hnqrT6qRJqrrXLmCLqY/edit>

Learning Resources

Website Layout using HTML5:

http://www.w3schools.com/html/html_layout.asp

Responsive Nav:

<http://responsive-nav.com/>

Slippry Slideshow:

<http://slippry.com/>

One Page Stick, SMINT

<http://www.outyear.co.uk/smint/>

Nav Stick & Z-Index:

<http://natickhighwebdesign.com/advanceclassspring2015/zindex.html>

DW Templates:

<https://helpx.adobe.com/dreamweaver/using/creating-dreamweaver-template.html>

Search Engine Optimization (SEO):

<https://www.siteground.com/tutorials/dreamweaver/metatags.htm>

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