UNIT PLAN

Course Number: 487a-001 (honors level)

Discipline: Computer Science (Media Arts)

Grade Level: 9-12

Course Length: 1 Semester

Credits: 3

Course Description:
The purpose of this course is to confidently transition students into the professional world of Web Design and Development. Students will focus on preparing for the Adobe Dreamweaver CC certification exam. The teacher will administrate the exam at the end of the semester in the classroom setting. The course will also introduce students to CSS3 for transitions, designing and developing for multiple screen sizes and advance features in Photoshop and Dreamweaver. In conjunction with preparing for the Adobe Dreamweaver CC certification exam and expanding their knowledge on the Adobe CC suite students will build and maintain a minimum of 1 website. This website will need to be based on an educational or non-profit environment. When students exit this course they will be prepared to apply for an entry-level job in Web Design/Development, which on average starts at a rate of $25/hr.

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: Adv. Dreamweaver, Review and Know

Enduring Understanding	Students will be able to create a file in Dreamweaver which demonstrates their understanding of the following html, css and dreamweaver skill sets: - Dreamweaver: setting up a site, setting up a page, assets panel, library items and snippets, rollover images, templates, form element, z-index - HTML & CSS: html5 tags, comments, media queries, nav stick, responsive na, slippery slideshow - Web Hosting: search tags, publishing, file structure, google analytics 1. Students will be able to demonstrate through the creation of a Dreamweaver file what they remember learning from Adv. Web Design I for Adv. Dreamweaver and HTML5 & CSS3. 2. Students will be able to communicate their knowledge of working in Dreamweaver and with HTML5 and CSS3 through publishing their files using the files panel in Dreamweaver as well as working through a Web hosting company. 3. Students will be able to identify the difference between working in a .html file and a .dwt file in Dreamweaver.
Essential Questions	- How does creating a .html and .css file using advance features in Dreamweaver compare to building a mansion vs. building a house?

Unit Objectives	- Dreamweaver
	  9-12.DTC.a.1
	  9-12.DTC.a.2
	  9-12.CT.d.10
	  9-12.CT.d.11
	- HTML & CSS
	  9-12.CAS.c.1
	  9-12.CAS.c.4
	  9-12.DTC.a.1
	  9-12.DTC.b.1
	- Web Hosting
	  9-12.CAS.b.2
	  9-12.CAS.b.3
	  9-12.DTC.c.2
	  9-12.DTC.c.4

Assessment Activities	Review and Know Assignment: http://mrscullen.com/images/ reviewandknowassignment.pdf Project Example: http://www.natickhighwebdesign.com/ michaelabytnar/bringingitalltogether/map.html
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, Nav Stick, Z-Index, Position, Template, SEO, Google Analytics

Project Based Learning Activities	Learning Resources In-House Resource: http://natickhighwebdesign.com/advanceclassfall2013/index.html - - - Website Layout using HTML5: http://www.w3schools.com/html/html_layout.asp - - - Responsive Nav: http://responsive-nav.com/ - - - Slippry Slideshow: http://slippry.com/ - - - 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 - - - Google Analytics: https://www.google.com/analytics/#?modal_active=none
School Wide Student Learning 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