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: Professional Site

Enduring Understanding	Students will be able to move from a planning stage to a working stage for publishing a professional Website (for a non-profit or business) using the following skill sets:
	- Working with a client to create an informative and user friendly Website
	- Use Adv. Dreamweaver features to create, maintain and publish Website
	- Use HTML5 and CSS3 features to create an attractive, modern and user friendly Website
	- Publishing and sharing site using data from SEO
	1. Students will work with a client from the Natick community or beyond to successfully create/complete a Website displaying adv. features of Adobe Dreamweaver.
	2. Students will be able to create a .html/.css resource which can be used in the future as an informative and marketing tool.
	3. Students will be able to carry over planning stages of a 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	- How does building a house relate to building a Website?

Unit Objectives	- Working with a Client
	  9-12.DTC.b.2
	- Adv. Dreamweaver Features
	  9-12.DTC.a.1
	  9-12.DTC.a.2
	  9-12.DTC.b.1
	- HTML5 and CSS3
	  9-12.CAS.c.7
	  9-12.DTC.b.1
	  9-12.CT.d.2
	  9-12.CT.d.7
	- Web Hosting
	  9-12.CAS.b.2
	  9-12.CAS.b.3

Assessment Activities	Assessment for Final Project/Personal Site Home Page Rubric http://mrscullen.com/images/ dw_personalsitehomepagerubric2.pdf All Pages Rubric http://mrscullen.com/images/ dw_personalsiterubric.pdf
Vocabulary	Algorithm, Authentication, Bandwidth, Browser Cookie, Code, Coding, Class, Data Structure, Digital Privacy, Digital Safety, Lifelong Learning, Problem Domain, Proprietary Software License, Server, WWW - - - HTML file, CSS file, external CSS, code view, design view, split view, panels, container, insert div tag, draw div tag, compound, class, css rule, live view, preview in browser, publishing, SEO

Project Based Learning Activities	Activities & Rubrics for Final Project/Personal Site: Mid-Check Rubric http://mrscullen.com/images/wdpersonalsite_sidepages.pdf Content Peer Editing Feedback Form http://mrscullen.com/images/wdcontentpeergrading.pdf Guardian/Educator Rubric http://mrscullen.com/images/web_guardianrubric.pdf Learning Resources Videos linked in the Dreamweaver/HTML & CSS Unit Outline - - - Web Design Tool Kit http://mrscullen.com/images/webdesigntoolkit.png - - - Setting up FTP http://mrscullen.com/images/wd_ftpsetupinformation.pdf - - - Connecting to FTP http://mrscullen.com/images/connecttoftp.pdf
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