

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: Design Principles and Photography Composition

Enduring Understanding	<p>Students will be aware of high quality design vs. poor design in terms of publishing content for digital devices:</p> <ul style="list-style-type: none">- Design Principles Review of the Basics: Contrast, Repetition, Proximity and Alignment- The 9 Essentials: Precedence, Spacing, Navigation, Design to Build, Typography, Usability, Alignment, Clarity, Consistency,- Typography- Color Theory- Photography Composition (taking and selecting photos) <p>1. Students will be able to demonstrate through the creation of a Google Drive presentation and design principles can affect the attraction and usability of a Website.</p> <p>2. Students will be able to communicate their knowledge of how to apply photography composition, trends and design principles when designing an attractive .html file through submitting class notes and completing a formative assessment.</p> <p>3. Students will be able to identify through already published files that of poor design and of well focused design by determining the use of photography composition, design principles and trends while being able to identify how each element added to the negative or positive layout of the file.</p>
Essential Questions	<ul style="list-style-type: none">- Do the marketing displays at retail stores affect the shopper decision in terms of what they buy and how much they buy?

<p>Unit Objectives</p>	<ul style="list-style-type: none"> - Design Principles, Review of the Basics 9-12.CAS.c.3 9-12.CAS.c.6 - The 9 Essentials 9-12.CAS.c.3 9-12.CAS.c.6 - Typography 9-12.CAS.c.4 - Color Theory 9-12.CT.c.2 - Photography Composition (taking and selecting photos) 9-12.CAS.c.6
<p>Assessment Activities</p>	<p>Writing Pre & Post-Assessment: http://mrscullen.com/images/writingddm_assignment2015.pdf - - - Unit Exam: https://docs.google.com/a/natickps.org/forms/d/1RFamRx5m0gGJRCHCajPJLnKcdLjlWaG_ZiqOKXhvsU/edit (Exam review provided through Socrative teacher)</p>

Vocabulary

Abstraction (process and product), Assistive Technology, Color Depth, Component, Computing Artifacts, Data Visualization, Decomposition, Ergonomics, Infographics, Iterative, Minimum Viable Product, Resolution, Visualization, Web Presence

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Alignment, Proximity, Repetition, Contrast, Interface & Navigation, Color Theory, Typography, Precedence, Spacing, Navigation, Design to Build, Typography, Usability, Alignment, Clarity, Consistency, Leading Lines, Unique Angles, Rule of Thirds, Anticipate the Moment, Fill the Frame, Framing, Get the Ball, Capture Emotion, Reflection, Relationship, Interaction, Effective Photography, Photo as Content, Effective Clever Gaze, Power of Faces, Stock Photos

Project Based Learning Activities

Activities

Teaching the 9 Essentials (resource site):
<http://design.tutsplus.com/tutorials/9-essential-principles-for-good-web-design--psd-56>

Teaching the 9 Essential (Train the Trainer, activity)

http://mrscullen.com/images/designprinciples_activity.pdf

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Color Theory Assignment and Resources:

<http://mrscullen.com/images/colortheoryassignment.pdf>

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Selecting Photos (presentation with activities)

http://mrscullen.com/images/selecting_effectivephotography.pdf

Learning Resources

Design Handbook:

<http://mrscullen.com/images/designhandbook.pdf>

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The Elements of Art:

<https://www.youtube.com/watch?v=uVrh3firC38>

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Taking Photos:

<http://mrscullen.com/images/photographycomposition.pdf>

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Font Conference:

<https://www.youtube.com/watch?v=i3k5oY9AHHM>

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Why City Flags May be the Worst Designed thing you Never Noticed:

http://www.ted.com/talks/roman_mars_why_city_flags_may_be_the_worst_designed_thing_you_ve_never_noticed?language=en#t-620127

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