

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: 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- Typography Time! <ol style="list-style-type: none">1. Students will be able to demonstrate through the creation of a Google Drive presentation (or presentation application of your choice) what they learned from Butterick's Practical Typography reading.2. Students will be able to communicate their knowledge of how to apply proper typography choices when designing an attractive .html file through submitting class notes in a Google Doc.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 typography trends while being able to identify how each element added to the negative or positive layout of the file.
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 & The 9 Essentials <li style="padding-left: 20px;">9-12.CAS.c.3 <li style="padding-left: 20px;">9-12.CAS.c.6 <li style="padding-left: 20px;">9-12.CAS.c.3 <li style="padding-left: 20px;">9-12.CAS.c.6 - Typography Time! <li style="padding-left: 20px;">9-12.CAS.c.4
<p>Assessment Activities</p>	<p>Pre-Assessment, What Do You Remember?: https://docs.google.com/a/natickps.org/forms/d/1RFamRx5m0gGJRCHCajPJLnKcdLjWaG_ZiqOKXhvsU/edit</p> <p>---</p> <p>Typography Time Presentation: http://mrscullen.com/images/typography.pdf Example: https://docs.google.com/presentation/d/1ROmgZux82ygv6_GQj5semEOadTR-O9y1q_DJAUvYBhf4/edit#slide=id.geeb8f0a95_0_228</p>
<p>Vocabulary</p>	<p>Abstraction (process and product), Assistive Technology, Color Depth, Component, Computing Artifacts, Data Visualization, Decomposition, Ergonomics, Infographics, Iterative, Minimum Viable Product, Resolution, Visualization, Web Presence</p> <p>---</p> <p>Print Size, Web Size, Line Spacing, Line Length, Letter Spacing, Stock Font, Point Size, Line Length, Headings, White Space, Justified,</p>

<p>Project Based Learning Activities</p>	<p>Activities Typography Time Reading & Notes: http://practicaltypography.com/</p> <p>Learning Resources: Font Conference: https://www.youtube.com/watch?v=i3k5oY9AHHM</p>
<p>School Wide Student Learning Expectations</p>	<p>Problem Solving, The student’s problem solving exhibits all of the following:</p> <ul style="list-style-type: none"> * 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
	<p>Writing, The student’s writing exhibits all of the following:</p> <ul style="list-style-type: none"> * Convention of proper usage for academic writing * An understanding of audience through word choice, vocabulary, tone and style