

## 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: CSS3

<b>Enduring Understanding</b>	<p>Students will be able to create a file in Dreamweaver which demonstrates their understanding of how to and when to use CSS3 to create a transition effect in a html file:</p> <ul style="list-style-type: none"><li>- Creating a transition using CSS3</li><li>- Understanding when to create a transition using CSS3 (in terms of design and usability)</li><li>- History of CSS</li></ul> <ol style="list-style-type: none"><li>1. Students will be able to demonstrate through the creation of a html file how to use CSS3 to create a transition on the Web.</li><li>2. Students will be able to communicate their knowledge of the history of CSS through a Google Presentation.</li><li>3. Students will be able to identify when it is appropriate and not appropriate to apply a CSS3 transition to a file in terms of design and usability</li></ol>
<b>Essential Questions</b>	<ul style="list-style-type: none"><li>- How does use CSS3 to implement a transition on a Web file differ than using JS?</li></ul>

<p><b>Unit Objectives</b></p>	<ul style="list-style-type: none"> <li>- Creating a CSS3 Transition <ul style="list-style-type: none"> <li>9-12.CAS.c.1</li> <li>9-12.DTC.a.1</li> <li>9-12.DTC.b.1</li> </ul> </li> <li>- CSS3 Transition in terms of Design and Usability <ul style="list-style-type: none"> <li>9-12.CAS.c.4</li> <li>9-12.CAS.c.6</li> </ul> </li> <li>- History of CSS <ul style="list-style-type: none"> <li>9-12.CAS.c.1</li> <li>9-12.DTC.c.2</li> <li>9-12.DTC.c.3</li> <li>9-12.CS.a.6</li> </ul> </li> </ul>
<p><b>Assessment Activities</b></p>	<p>Creating a CSS3 Transition in an HTML file:  File for directions to come  Project Example:  <a href="https://docs.google.com/document/d/16Fz7588II3wp5bt9m13NxjgAgwV_sBuyHZ0xNBr4nWs/edit">https://docs.google.com/document/d/16Fz7588II3wp5bt9m13NxjgAgwV_sBuyHZ0xNBr4nWs/edit</a>  (directions to publish on Web to come)</p>
<p><b>Vocabulary</b></p>	<p>Algorithm, Attribute, Authentication, Code, Coding, Class, Computational Artifact, Variable  ---  CSS3 Transition, Animation, Keyframe, Property, element, animation duration, animation iteration count, infinite, animation direction, ease, linear, ease-in, ease-out, cubic bezier</p>

<p><b>Project Based Learning Activities</b></p>	<p>Learning Resources W3Schools: <a href="http://www.w3schools.com/css/css3_animations.asp">http://www.w3schools.com/css/css3_animations.asp</a></p> <p>Transitions with Aiden: <a href="https://www.youtube.com/watch?v=oYWRwNfha3g&amp;feature=youtu.be">https://www.youtube.com/watch?v=oYWRwNfha3g&amp;feature=youtu.be</a></p>
<p><b>School Wide Student Learning Expectations</b></p>	<p><b>Problem Solving</b>, The student’s problem solving exhibits all of the following:</p> <ul style="list-style-type: none"> <li>* Identifies and describes the problem</li> <li>* Draws information from a variety of sources</li> <li>* Addresses all essential conditions of the problem</li> <li>* Presents correct work or computation with evidence of reflection checking</li> <li>* Shows understanding of underlying concepts and procedures</li> <li>* Presents strong supporting arguments and/or facts with great clarity and organization</li> </ul>
	<p><b>Writing</b>, The student’s writing exhibits all of the following:</p> <ul style="list-style-type: none"> <li>* Convention of proper usage for academic writing</li> <li>* An understanding of audience through word choice, vocabulary, tone and style</li> </ul>