

Folsom Cordova Unified School District

WEB DESIGN with ANIMATION

Date: January 2009

Subject Area: Career Technical Education

Proposed Grade Levels: 10th – 12th

Course Length: 1 Year

Grading: A - F

Number of Credits: 5 per Semester

Subject Area Credit: Technology

BRIEF COURSE DESCRIPTION:

Web Design with Animation is a comprehensive year long course that will take students from creating a new Web Site to designing graphics and animations using Adobe Fireworks and Flash. The units in this course build on each other to give students a real-world experience of planning and creating a number of Web Sites using Adobe Dreamweaver, Adobe Fireworks, and Adobe Flash. This course is designed to teach web design and animations from the bottom up, with the assumption that students have never used these applications before in any version and have limited experience with any other web design or graphics programs.

GOALS AND OBJECTIVES:

Upon successful completion of this course, the student will be able to:

- Apply the elements and principles of design in creating a Web page.
- Exhibit an understanding of design and layout, and their application in Web page design.
- Use applicable Web design software, Adobe Photoshop CS3, Dreamweaver CS3, Flash CS3 to create Web Sites.
- Use multiple programming languages including, but not limited to HTML, XHTML and CSS.
- Design web animations using flash and fireworks.

STUDENT READING COMPONENT:

Students will read and understand online resources, textbooks, and internet based tutorials as they apply their understanding to the units discussed. Students will revise and correct web pages designed in this course.

STUDENT WRITING COMPONENT:

Students will produce original writings produced in the web design format.

Students will analyze writings for correct punctuation and grammar. Students will analyze, compare and contrast forms of persuasive writing as they apply to web marketing/e-commerce.

STUDENT ORAL COMPONENT:

Students will present original web pages/sites and use persuasive communication to sell online products. Students will take part in small group discussions critiquing different web designs.

DETAILED UNITS OF INSTRUCTION:

- Getting Started with Dreamweaver
 - Introduction
 - Understanding Web Pages and Dreamweaver Components
- Web Page Text and Links
 - Inserting Text from Office Documents
 - Modify Font Formats
 - Editing Links and Correcting Errors
- Graphic Elements and Templates
 - Web Colors
 - About Adobe Fireworks
 - Bit Map Objects
 - Vector Objects
 - Graphic Layers
 - Incorporating Images on a Web Page
- Web Page Tables and Forms
 - Create and Modify Tables for Page Layouts
 - Creating Useful Forms
- A.P. Elements, Frames, and Styles
 - Create and Modify AP
 - Create and Modify Frames
 - Cascading Style Sheets
- Dynamic and Interactive Pages
 - Using Adobe Flash
 - Creating Animation
 - Motion Tweening
 - Inserting Flash Movies and Buttons
 - Slicing
- Advanced Graphics and Animation
 - Creating GIF Files
 - Improving JPEG Files
- Managing and Publishing Web Sites
 - Understanding Servers
 - Modifying Links
 - Publishing a Site
 - Managing a Site

SUBJECT AREA CONTENT STANDARDS TO BE ADDRESSED:

**Career Technical Education Framework for California
Public Schools Grades Seven through Twelve (May 2005)**

2.0 Communications

Students understand the principles of effective oral, written, and multimedia communication in a variety of formats and contexts.

(The standards listed below retain in parentheses the numbering as specified in the English–language arts content standards adopted by the State Board of Education.)

2.1 Reading

- (2.1) Analyze the structure and format of functional workplace documents, including the graphics and headers, and explain how authors use the features to achieve their purposes.
- (2.6) Demonstrate use of sophisticated learning tools by following technical directions (e.g., those found with graphic calculators and specialized software programs and in access guides to World Wide Web sites on the Internet).
- (2.7) Critique the logic of functional documents by examining the sequence of information and procedures in anticipation of possible reader misunderstandings.

2.2 Writing

- (1.8) Design and publish documents by using advanced publishing software and graphic programs.
- (1.9) Revise writing to improve the logic and coherence of the organization and controlling perspective, the precision of word choice, and the tone by taking into consideration the audience, purpose, and formality of the context.
- (2.6) Deliver multimedia presentations:
 - Combine text, images, and sound and draw information from many sources (e.g., television broadcasts, videos, films, newspapers, magazines, CD-ROMs, the Internet, electronic media-generated images).
 - Select an appropriate medium for each element of the presentation.

4.0 Technology

Students know how to use contemporary and emerging technological resources in diverse and changing personal, community, and workplace environments:

- (4.1) Understand past, present, and future technological advances as they relate to a chosen pathway.
- (4.2) Understand the use of technological resources to gain access to, manipulate, and produce information, products, and services.
- (4.3) Understand the influence of current and emerging technology on selected segments of the economy.
- (4.4) Understand effective technologies used in Web site development and the Internet.

10.0 Technical Knowledge and Skills

Students understand the essential knowledge and skills common to all pathways in the Information Technology sector:

- (10.1) Know how to use a variety of business- and industry-standard software and hardware, including major proprietary and open standards.

- (10.6) Understand the interrelationships between hardware components and supportive software.
- (10.7) Analyze the functions, features, and limitations of different operating systems, environments, applications, and utilities.

THIS COURSE WILL PREPARE STUDENTS FOR THE CAHSEE AND/OR CST'S:

Language Arts, Math

LAB FEE IF REQUIRED:

None

DISTRICT ESLRS TO BE ADDRESSED:

Students will be:

- **Self-Directed Learners:** Able to apply their knowledge of web design and animation to create original websites using the correct techniques and procedures.
- **Effective Communicators:** Able to successfully communicate the purpose of specific Web Sites by using effective design elements.
- **Quality Producers/Performers:** The students will meet deadlines and have their products judged by peers, other business teachers, and member of the business community. All projects must meet or exceed establish standards of acceptance.
- **Constructive Thinkers:** Using the knowledge and skills learned in Web Design with Animation, students will solve design problems and improve sites by incorporating new techniques used in industry. Students will analyze other sites for usability.
- **Collaborative Workers:** Students will work in small groups to analyze web designs and develop ideas for improvement.
- **Responsible Citizens:** Students will be in class on time, on a regular basis to achieve success in this course. Students will learn responsible actions for equipment maintenance.