

Computer Animation Syllabus

Computer Animation is a certificated course offered by ROP (REGIONAL OCCUPATIONAL PROGRAM)

Rancho Buena Vista High School - Room: 220

Instructor: Mrs. Donna Tlachac

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Topics of Discussion

Introduction to Web Publishing Concepts

HTML
Multimedia authoring applications
Web Page Design applications
FTP Utilities
Graphic optimization applications

2-D Animation and Multimedia authoring

FLASH Interface
- Stage, panels, layers, and the timeline
Creating and modifying vector objects
Manipulating multiple objects
- Shapes, Groups, classes

Digital 2-D Animation Techniques

The 12 principles of Animation
Straight Ahead Action & pose to pose Action
Motion Tweens, Shape Tweens and frame-by-frame animations
Graphic, Button, and Movie Clip Symbols – Libraries and Instances

Vector Drawing Applications

Drawing and coloring objects
Text as a design element
Typography on the WWW
Graphic Design Principles
Logo / Brand creation

Bitmap Imaging with Adobe Photoshop

Digital capture (digital camera or scanner) composition, & editing
Preparing Web Graphics
Gif Animation- Image optimization for optimal download time
Import, Trace, Break apart, and loading bitmaps in FLASH
Creating Environments in Painter

Animated Cartoons – Character Dialogue

Conceptualization techniques brainstorming, thumbnails, storyboarding
Setting goals, defining objectives, meeting deadlines
Animation Cycles – Movie Clip Instances
Using scenes to organize a project or web site, targeting scenes
Lip synchronization – Recording Dialog

The Elements of Art and the Principles of ART

Design Aesthetics – Page Layout for the Internet
Creating the illusion of Depth in a 2D environment
The Illusion of Depth – Perspective - Rendering Form with Value

Cinematic techniques and Terminology– Video & Sound

Simulating common camera movement and film making techniques in FLASH
Transitions: FLASH special optical effects used to segue from one scene to another
Script Writing: Setting up the visual scope of the scene & view of the camera
Importing, controlling, and adding effects to Video and Sound

Scripting Languages: ActionScript and JavaScript

Events and event handlers: Mouse, Keyboard, movie clip and time based events
Using movie Clips and multiple .swf files to keep project file sizes manageable.

First Semester Focus: Vector Drawing in Adobe Illustrator and FLASH, Web Publishing in Dreamweaver, FTP, file management, digital imaging in Adobe Photoshop, timeline animation, programming methods, defining properties, interactivity with buttons and keystrokes, Recording and editing sound, and multimedia authoring in FLASH.

First Semester Projects: X-Boarding.com Web site, Electronic Resume preparation, Multimedia projects portfolio, Bi-plane movie, shape tweens, Animated Poem, The Elements of ART Web Site, Banner advertisement, Character Development, Lip synchronization, E- Greeting Card, Travel Advertisement

Second Semester Focus: Working on complex projects with multiple timelines, adding and editing sound, integrating ActionScript to add interactivity, loading external movies, introduction to games, animated web site, creating a preloader, and using the FLASH Interface to deliver video.

Second Semester Projects: X-Boarding.com Web site, Maze game, Tic-Tac-Toe Game, Spaceship game, Animated Logo Design, Gag Animation, Animated Cartoon & a "Choose your Own Adventure Animation, MP3 Player

Presentation Quality Checklist Portfolios

During the course, each student will create a portfolio web site in Dreamweaver that are published to the Internet. Projects, exercises, assignments, and animations will be published as individual web pages of the site. At course completion, each student will have created a professional quality online portfolio site which they can present to a prospective employer, client, College or University. To view your son or daughters electronic portfolio, point your browser to:

http://www.vistaadultschool.com/teachers/dtlachac/2009-10/____period/lastname/index.htm

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Basic workplace and job acquisition skills are emphasized throughout the course to build an awareness of career options and advanced educational opportunities in the field of computerized graphic design, web design, web site development, multimedia development and computer animation.

Upon completion of the course, each student can receive a **R.O.P. Certificate of Competency in Web Page Design and Animation issued by the San Diego County Office of Education Regional Occupational Program**. On the ROP Certificate, the marketable skills learned during the year are described in detail for employers or college counselors and are often 4– 5 pages in length.

College Credit - Articulated with the California Community College System

All students who receive an A or a B will be eligible for college credit.

Participation

This is a project based, hands on course, where course work simulates current industry standards and practices. We will use instructor led demonstrations to introduce new concepts. Class exercises teach the students about the tools they can use to create computer graphics, animations and web sites that present clear visual messages. The curriculum is presented as an applied art and technology course.

Attendance is vital for success!

Since classroom activities play a major part in each student's success in the class, attendance is critical. When a student is absent, it is his or her responsibility to make up the assignments that were missed.

Projects & Assignments

Projects and assignments are assigned a value in points and are scored according to **quality, creativity and adherence to project guidelines**. Student may earn points per finished exercise, assignment, or project.

Late Work

Assignments are due on time! Partial credit may be given at the Instructors discretion.

Grading Policy

Students will receive a grade for work completed during each progress report period. A cumulative grade is assigned at the end of each semester. Students are graded on projects, assignments, quizzes, exams, attendance, and participation in classroom activities, attendance, and conduct.

Course Grading Criteria & Competency Scale

A percentage system is used based on the total points received for all work completed. Work place and trade related competencies are also evaluated for certification purposes according to the following criterion-based system.

A= 90 –100	All major and minor goals achieved
B =80 – 89	All major goals achieved; some minor ones not
C =70 – 79	All major goals achieved; many minor ones not
D= 60 – 69	A few major goals achieved, but student is not prepared for advanced work
F= 0 – 59	None of the major goals achieved

Class Expectations

The following rules of conduct must be followed at all times:

- The Rancho Buena Vista Technology Acceptable Use Policy is strictly enforced at all times!
- Any attempt to circumvent the RBV security system is strictly prohibited.
- Students MAY NOT download, unzip, or install any programs or compressed files.
- Students may not join, view the web site of or use file-sharing server to download songs or programs.
- Chatting, instant messaging, posting to a message board, reading a message board, and writing, reading or receiving E-mail is not allowed in room 220 unless you are directed to do so.

RBV Character Statement

Students of Rancho Buena Vista High School will demonstrate **Good Character** on and off campus. Each student is **Trustworthy** and consistently shows **Respect** and **Responsibility** to themselves and others. They are **Fair** and **Caring** in all their actions and model appropriate **Citizenship**.



Name _____ Class _____ Period _____

Please read, sign, and return this page of the syllabus to Mrs. Tlachac for your first points.

Signed, this is worth 25 points when returned before _____.

Dear Parents,

Please feel free to call me if you have any questions, or if you would like to set up a conference. Visit our classroom on Back to school night. The **RBV Back-to-School Dinner & RBV Back-to-School Night** is scheduled for the evening of **Tuesday, September 18**. I look forward to meeting you and to getting to know your son or daughter.

Please print the following information so that I may reach you if necessary:

Student: (Please Print) _____

Parents Names: (Print) _____

Home Phone: (Mother) _____ (Father) _____

Work Phone: (Mother) _____ (Father) _____

Please list any concerns that you would like me to be aware of _____

Student and Parent: Please Read and Initial below before the statements, if you understand them.

Parent Student

_____ Students MAY NOT download any programs or compressed files to the RBV network.

_____ Students may not share files or join a file sharing program on the RBV network. (Kazaa)

_____ Students may not unzip, or install any programs to the RBV network. (Games, viruses)

_____ Students may not use remotely operated software to log keystrokes, run programs or commandeer another computer on the RBV Network. (Malware, viruses, scripts)

_____ Students should follow the rules of the RBV handout at all times, remain conscientious of appropriate classroom conduct, and choose to view decent Internet content.

I understand the information on Mrs. Tlachac's in class expectations and of the RBV character statement of conduct.

Parent / Guardian Signature _____

Student Signature _____

Students please fill out the following:

Do you have access to the Internet at home? Yes No

I hope to learn:

Have you taken an art, computer, technology, or multimedia class? I have taken

Comments: _____
