

Web Design

Course Syllabus and Planner

Course Overview

The CompuScholar **Web Design** curriculum is a one-year (two-semester) course covering required topics in most introductory "Web Design" classes. This course has been aligned to specific course standards in many states. Please visit our course description page for a video tour and alignment information.

https://www.compuscholar.com/schools/courses/web-design/

Students should have minimal computer usage skills (e.g. keyboarding, mouse, and operating system navigation, text file editing) prior to starting this course.

Teaching Strategies

The course material is designed to appeal to a variety of students, from traditional learners who thrive on written text to audio-visual students who enjoy a multi-media format. All content is delivered through an online system that allows students to work seamlessly both in the classroom and at home.

Labs and Programming Environment

Every chapter contains one or more hands-on programming labs where students will design or implement web pages to demonstrate understanding of the lesson topics. Students will get the opportunity to work on individual and group projects and will experience all phases of a project lifecycle, including requirements, design, implementation, and testing.

During the first semester, hands-on labs will be completed using simple text editors (e.g. Notepad or TextEdit) build into their Windows or Mac OS operating systems. We introduce the free, cross-platform Komodo Edit software during the second semester to provide advanced HTML editing features. Alternative IDEs may be used at teacher discretion.



Course Planner

A typical school year consists of approximately 36 calendar weeks or 180 days of school. The course plan covers approximately 168 school days, with additional time allocated for review, make-up work, individual projects and Supplemental Lessons. Each "day" listed below represents one typical class period of 45 – 60 minutes, so students will typically work 3-5 hours per week. The suggested number of days factors in 1 day per lesson & quiz, 1 day per lab, and 1 day per test. Some classes may move faster or slower than the suggested pace.

Each chapter contains multiple lessons, quizzes and a chapter test in addition to the listed Lab assignments. Completion of in-lesson "Work with Me" exercises is required in order to successfully finish the ongoing web site projects in each semester. Teachers may utilize Supplemental Lessons as desired to meet state standards or student interest. Team Projects and other assignments may be adjusted to fit the available time.

Days	Reading and Objectives	Labs
5	 Chapter One: Web Tools and Languages Web Browsers The Language of "Mark-up" File Naming and Extensions 	Secret Message Hunt Practice viewing existing HTML source code.
6	 Chapter Two: Your First Web Page Root Directories Home Pages Essential HTML Symbols HTML File Layout 	Body Text Experiments Use and elements for formatting.
5	 Chapter Three: Head and Body Elements Header Elements Body Elements Highlighting Content 	Silent Owl Add a <blockquote></blockquote> to the page



Days	Reading and Objectives	Labs
5	Chapter Four: Organizing Content	Make an Un-ordered List
	Dividing Up Your Page	Create a list on the page
		Greate a list off the page
	Keeping It NeatHTML Lists	
	• HIML Lists	
7	Chapter Five: Connecting Your Site	Linking Your Raptors Home
		Page
	Bookmarks and Hyperlinks	
	The Internal (Relative) Link	Add a navigation bar with
	The Navigation Bar	hyperlinks
	The External (Absolute) Link	
	Email Links	
7	Chapter Six: Cascading Style Sheets	External Raptors CSS
	Inline Styles	Create an external CSS file for the
	Choosing Colors	Raptors website
	Embedded CSS	
	Applying CSS Rules	
	External Cascading Style Sheets	
	j ,	
5	Chapter Seven: Common CSS Properties	Raptors Margins and Padding
	Font Styles	Adjust margin and padding styles
	, and the second	on the Raptors site styles
	Margins and Padding Section by ID, Class or Consum	
	Styling by ID, Class, or Group	



Days	Reading and Objectives	Labs
5	Chapter Eight: Styling Links, Backgrounds,	Raptors Borders and
	and Borders	Background
	- C. F. T. I	Add handons and hankamaund to
	Styling Links	Add borders and background to the Raptors site styles
	Background Images	the Kaptors site styles
	• Borders	
6	Chapter Nine: Positioning	Positioning Raptors Containers
	Arranging Containers	Float the navigation bar to the left
	Positioning Nested Elements	side of the Raptors page
	Playing with Layers	
	Floating Positions	
	_	
6	Chapter Ten: Creating Your Brand	Brand Research - Review and
	. D · D · · 1	analyze existing websites for
	Design Principles	effective use of color and
	Styling the Banner One of	graphics.
	Creating Custom Bullets	Branding Raptors – Add several
	Styling Navigation Bars	color and graphical touches to the
		overall Raptors site styles
5	Chapter Eleven: Working with Graphics	Cropping and Editing the
		Great Grey Owl
	Finding and Editing Images	Practice editing and optimizing a
	Adding Images	web image.
	Positioning and Styling Photos	Creating Other Raptors Sub-
		Pages
		Use templates to create additional
		pages in the Raptors website



Days	Reading and Objectives	Labs
5	Chapter Twelve: Tables	Raptors Size Table
	A 11' T 11	Create and style a new table
	Adding a Table This Formula is a second control of the contr	comparing Raptor sizes
	Table Formatting Fig. 1.1. (Fig. 1) Control of the control	Companing Kaptor sizes
	Finishing Touches for Tables	
6	Chapter Thirteen: Web Site Design	Storyboard and Site Map
	Strategies	
		Practice creating a storyboard and
	Project Planning	site map for a chosen website
	Accessibility	topic
	Static, Dynamic, and Interactive Sites	
	Search Engine Optimization and	
	Marketing	
10	Chapter Fourteen: Mid-Term Project	Students will work in teams to
	Online Research	research, design, create, test, and
	Build Your Website	review a website on a topic of interest.
	Evaluation and Feedback	interest.
	Evaluation and Feedback	
7	Chapter Fifteen: Computers and Networks	Investigate Your Environment
	Survey of Computer Hardware and	Study how the networking
	Software	infrastructure works at your home
	Internet History and Structure	or school.
	Networking Components and Addressing	
	Network Topology	
	Network Protocols	



Days	Reading and Objectives	Labs
8	Chapter Sixteen: Tools and Trends	Install Komodo Edit
	Computer Ethics	Install the software package and
	Web Security	prepare for use.
	Emerging Trends in HTML5	A surger and in so I I amon Door
	Web Editing Tools	Aquamaniacs Home Page Layout
	Komodo Edit Projects	Layout
		Configure the initial home page.
7	Chapter Seventeen: HTML5 Concepts	Analyzing Websites for
	HTML5 and Web Browsers	HTML5
	Defining Areas with Sections	Review existing public websites to
	Headers and Footers	see how they use HTML5
	Articles, Asides and Navs	
	Theorem, Tordes and Twite	Styling Articles and Asides
		Apply styles to the articles and
		asides on the Dolphins page
5	Chapter Eighteen: Figures and Annotations	Leaping Dolphins
	• Figures and Continue	Apply site-wide styles to figures
	Figures and CaptionsFigure Annotation with Relative	and captions
	Positioning	
	Dynamic Annotations	
	D) imine i iniomaoin	
5	Chapter Nineteen: Adding Audio and Video	Sound Bites
	Linked and Embedded Videos	Add sound clips to a new page
	HTML5 Video	oo and only to a non page
	HTML5 Video HTML5 Audio	
	- IIIIVILA AUGIO	



Days	Reading and Objectives	Labs
6	Chapter Twenty: Introducing CSS3	Branding Aquamaniacs
	Browser Compatibility	Apply several CSS features to get
	Colors and Transparency	the main Aquamaniacs look and
	Advanced Borders and Shadows	feel.
	Custom Fonts	
5	Chapter Twenty-One: Cool CSS3 Features	Grooving and Shaking
	Advanced Backgrounds	Apply transformations and other
	Gradients	features to sample fish images
	Image Transformations	
5	Chapter Twenty-Two: Relationship	Emperor Penguins
	Selectors	Ctulo o nous noos voins
	Parent-Child Relationships	Style a new page using relationship selectors
	Parent and Child Selectors	relationismp selectors
	Sibling Selectors	
	olomis celectore	
5	Chapter Twenty-Three: Pseudo-Selectors	Lobsters
	Pseudo-Class and Pseudo-Element	Style a new page using pseudo-
	Selectors	selectors
	First and Last Child Pseudo-Selectors	
	Numbered and Combined Selectors	
5	Chapter Twenty-Four: Dynamic Menus	Lionfish
	Dynamic Menus and Nested Lists	Add dynamic annotations to a
	Styling First-Level Dynamic Menus	new page
	Styling Second-Level Dynamic Menus	



Days	Reading and Objectives	Labs
6	Chapter Twenty-Five: Introducing JavaScript JavaScript Concepts JavaScript Events and Functions Managing Elements with JavaScript External JavaScript Files	Cuttlefish Add JavaScript behavior to a new page
6	Chapter Twenty-Six: Dynamic Pages with jQuery The jQuery Library jQuery Syntax and Page Loading jQuery Events Hiding and Showing Elements	Otters Add jQuery behavior to a new page
5	Chapter Twenty-Seven: jQuery Special Effects • Fading and Sliding • Timing and Multiple Effects • jQuery Animation	Dancing Octopus Create an animation using jQuery
10	 Chapter Twenty-Eight: Final Project The Big Picture 	Start to Finish Students will follow the same basic steps as the mid-term project and work in teams to research, design, create, test, and review a website on a topic of interest.



Days	Reading and Objectives	Labs
As desired	Supplemental Lessons	Supplemental Lessons may be
		added by the teacher as desired to
	Evaluating Web Hosts and Servers	meet state standards or satisfy
	Domain Name Registration	student interest.
	Using Search Engines	
	Project Management	
	Video Editing	
	Java Applets	
	Technical Writing	
	Web Development Roles	
	Validation and Analytics Tools	
	Image Maps	
	HTML Forms	
	HTML Frames	
	Student Organizations	