



KidCoder: Beginning Web Design

Printed Course Syllabus and Planner

Updated October, 2015

Printed Course Overview

Course Title: *KidCoder: Beginning Web Design*

Textbook ISBN: 978-0-9830749-6-0, published 2013 by Homeschool Programming, Inc.

Length: 1 Semester

Student Pre-Requisites: Basic computer literacy skills, 4th – 12th grade status. Other introductory programming courses are not required.

Description: The *KidCoder: Beginning Web Design* course is a one-semester introduction to web page design using the HTML language. Students will learn to create and style their own web pages, right on their computer, with numerous hands-on computer lab activities.

Materials:

- Student Textbook
- Simple Text Editor (Notepad, TextEdit)
- Windows or Mac OS personal computer
- Course activities (hands-on programming assignments)
- Course supplemental documentation
- Course instructional videos (optional)

Labs and Grading

Every chapter contains one or more hands-on programming labs where students will design or implement programs to demonstrate understanding of the lesson topics. These labs, combined with end-of-chapter tests, are used to determine the student grade.



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Course Planner

A typical school semester consists of approximately 18 calendar weeks or 90 days of school. This course plan covers 17 school weeks of core material, assuming students are working 3-5 hours per week to stay on pace. Some students may move faster or slower than the suggested pace.

Each chapter contains 3-5 lessons, a chapter test, plus a hands-on programming assignment. Students will also complete “Work With Me” activities within lessons to re-enforce key concepts.

Week	Reading and Objectives	Labs
1	Chapter One: Introduction to Web Design <ul style="list-style-type: none">• How the Internet Works• Web Browsers• The Language of “Mark-up”• Ways to Create HTML	Secret Message Hunt Practice viewing existing HTML source code.
2	Chapter Two: Web Site Files and Directories <ul style="list-style-type: none">• File Naming and Extensions• Web Pages• Starting a New Web Site	Raptors Site Map Students will draw a site map describing the Raptors website they will create in this semester.
3-4	Chapter Three: Your First Web Page <ul style="list-style-type: none">• Essential HTML Symbols• HTML File Layout• Header Elements• Body Elements	Word Games Students will practice their web design vocabulary with word games and matching exercises.



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Week	Reading and Objectives	Labs
5	Chapter Four: Web Content <ul style="list-style-type: none">• Highlighting Content• Dividing Up Your Page• Keeping It Neat• HTML Lists	Unordered Lists <p>Students will add an unordered list to the Raptors home page.</p>
6-7	Chapter Five: Connecting Your Site <ul style="list-style-type: none">• Hyperlinks• The Internal (Relative) Link• The Navigation Bar• The External (Absolute) Link	Practicing File Paths <p>Students will determine relative paths from a variety of starting and ending points.</p> Finish Linking Your Raptors Home Page <p>Students will complete the Raptors navigation bar hyperlinks.</p>
8	Chapter Six: Cascading Style Sheets <ul style="list-style-type: none">• Inline Styles• Choosing Colors• Embedded CSS	Embedded Raptors Styles <p>Add a variety of styles to the Raptors home page.</p>
9-10	Chapter Seven: Practical CSS <ul style="list-style-type: none">• External CSS• Font Styles• Comments and Spacing• Styling by ID, Class, or Group	Raptors Margins and Padding <p>Adjust margin and padding styles on the Raptors site styles</p>



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Week	Reading and Objectives	Labs
11	Chapter Eight: Understanding Cascades <ul style="list-style-type: none">• Cascading Explained• More Cascading Patterns• Styling Links• Borders	Creating Borders for the Raptors Sidebar <p>Add border styles to the raptors navigation bar.</p>
12	Chapter Nine: Positioning <ul style="list-style-type: none">• Arranging Containers• Positioning Nested Elements• Playing with Layers• Relative Positioning	Positioning Raptors Containers <p>Float the navigation bar to the left side of the Raptors page</p>
13	Chapter Ten: Branding Your Site <ul style="list-style-type: none">• Creating the Brand• Background Images• Creating Custom Bullets• Styling Navigation Bars	Branding Raptors <p>Add several color styles and graphical touches to the overall Raptors site appearance.</p>
14	Chapter Eleven: Working with Graphics <ul style="list-style-type: none">• Finding Images• Basic Image Editing• Adding Sub-Pages and Photos• Positioning and Styling Photos	Cropping and Editing the Great Grey Owl <p>Edit and crop a web image.</p> Creating Other Raptors Sub-Pages <p>Use templates to create additional pages in the Raptors website</p>



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Week	Reading and Objectives	Labs
15	Chapter Twelve: Tables <ul style="list-style-type: none">• Adding a Table• Table Formatting• Finishing Touches for Tables	Comparing Raptor Sizes <p>Create and style a new table comparing Raptor sizes</p>
16-17	Chapter Thirteen: Final Project <p>Students will create their own website over a series of guided stages.</p>	Content Brainstorming Design Your Page Laying the Foundation Graphical Wizardry Construction Time High-Styling