

**Course Catalog  
2012-2013**

# **Graphics, Web design and Animation**



## Graphics, Web design and Animation

Web Design/XHTML Online, Part I has been designed to introduce students to the foundations of Web design, including planning, creating, and publishing a Web site. In addition to providing a brief history of the Internet and introducing basic vocabulary, the course teaches students how to hand-code Web pages, create basic cascading style sheets to control the presentation of a Web page or site, and identify the accessibility and usability issues that influence Web site design.

Whether students are planning to pursue additional studies in the field of Web design, decide to enroll in this online course to prepare for taking a certification exam, or simply are interested in personal development, we believe that they will find this course interesting and enriching.

### Course Objective

- Understand the importance of the web as a medium of communication.
- Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice.
- Develop skills in analyzing the usability of a web site.
- Develop skills in digital imaging (Adobe Photoshop.)
- Be able to embed social media content into web pages.
- Implement and understand how to interpret basic web analytics.

### Who Should Attend

This course is designed for individuals who have been developing web pages with a GUI and want to progress to developing using three tier architecture (Client, Middle, and Database).

### Course Prerequisites

All graphics, web design and animation training attendees must be fluent in Computer skill.

### Course Duration

60 Hours, 20 Classes, 3 Hours per class

# Course Details

## Lesson 01: Web Development Process

- Web Development Process
- Web Development Questionnaire
- Usability
- Accessibility
- Web Standards
- W3C - World Wide Web Consortium

## Lesson 02: Web Graphics

- Jpeg - Joint Photographers Expert group
- Gif - Graphic Interchange Format
- PNG - Portable network graphics
- TIFF - Tagged Interchange File Format
- PSD - Photoshop

## Lesson 03: Programming Languages

- AJAX, Web 2.0
- ASP, ASP.net
- PHP
- HTML, XHTML
- Javascript Frameworks - JQuery, Ruby on Rails
- CSS, XSLT
- CMS

## Lesson 04: Web Design Tools

- Dreamweaver
- Photoshop
- Flash
- Gimp
- Nvu
- Portable Apps
- Server2Go

## Lesson 05: Creating Your First Website

- Setting Up a New or Existing Site
- Creating a New Document
- Adding & Formatting Text
- Setting Fonts for a Web Page
- Creating Lists, Indenting, & Changing Text Color
- Saving Images for the Web
- Inserting & Aligning Images on a Web Page
- Creating Links & Previewing in a Browser
- Creating an Email Link
- Creating a Jump Link & Testing Links

## Lesson 06: Creating Sites Using Templates

- Browsing Templates
- Creating a Website from a Template
- Adding Images to a Starter Page
- Updating Files & Changing Background Colors

## Lesson 07: Designing with Tables & Forms

- Creating Tables on a Web Page
- Altering Tables Using the Properties Inspector
- Creating a New Site
- Placing Images & Graphics into Tables
- Aligning Text & Graphics in Tables
- Adding a Background Color
- Using Tracer Images in Layout Mode
- Building Pages over Tracer Images
- Inserting Text from Other Files
- Tweaking Layouts to Create Perfect Pages
- Setting Up an Online Form
- Adding Radio Buttons & List Menus
- Creating Text Fields & Areas
- Adding Checkboxes & Submit Buttons
- Setting Properties for Form Submission

## Lesson 08: Creating Websites with Frames

- Introducing Frames & Framesets
- Creating Frames & Framesets
- Saving Framesets
- Tricks for Inserting Images & Setting Scroll Bars
- Using Tables with a Frameset
- Linking Thumbnail Images with Full-Size Images
- Dos & Don'ts about Using Frames

## Lesson 09: Dreamweaver Tips & Tricks

- Integrating Photoshop® with Dreamweaver
- Setting Display Options
- Saving Features as Favorites
- Organizing Files & Folders
- Targeting Links
- Adding Metatags
- Using the History Panel
- Adding PDFs to Web Pages
- Using Rollovers for Fun & Games
- Using Animated GIFs
- Backing It Up

## Lesson 10: Rollovers & Other Image Tricks

- Creating & Inserting Rollover Images
- Drawing Image Maps
- Cropping Images on a Page
- Resizing & Slicing Images in Fireworks®
- Saving Time with Templates
- Creating a Template from an Existing Page
- Setting Editable & Uneditable Regions
- Setting Repeating & Optional Regions
- Creating New Pages Based on Templates
- Placing Links in a Template
- Altering & Updating Templates
- Nesting, Exporting & Using Contribute

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## Lesson 11: Designing with Cascading Style Sheets

- Introducing Cascading Style Sheets
- Creating a New Class Style
- Creating an External Style Sheet
- Applying External Style Sheets
- Modifying External Style Sheets
- Editing Style Properties
- Defining Rules for Styles
- Working with Predefined Styles

## Lesson 12: Creating Precise Designs Using Layers

- Loading & Organizing Images
- Creating a Tracing Image
- Drawing Layers & Inserting Images
- Inserting Text & Using Styles
- Sizing & Aligning Layers Precisely
- Using Tables within Layers
- Stacking Multiple Layers
- Adding Background Images
- Arranging Layers Using the Z Index
- Introducing Behaviors
- Using the Behaviors Panel
- Applying & Changing Behaviors
- Creating a Pop-Up Window
- Creating Status Bar Text
- Combining Image Maps & Behaviors
- Getting More Behaviors

## Lesson 13: Adding Audio, Video, & Flash™ to a Page

- Viewing a Website Made in Flash
- Inserting & Embedding a Flash Site
- Exploring the Flash Properties Panel
- Inserting Flash Buttons & Text
- Learning about Streaming Media File Formats
- Creating Links to Video Files
- Embedding a QuickTime™ Video in a Page
- Using the QuickTime Parameters
- Embedding a Windows Media® Video into a Page
- Adding Audio to a Web Page

Changing the audio parameter

## Lesson 14: Testing Your Website

- Setting Up Your Site for Testing
- Checking Links
- Identifying & Dealing with Orphaned Files
- Changing Links Sitewide
- Using the Check Accessibility Function
- Testing Your Work with the Site Reports Option
- Recreating Site Cache
- Visualizing Your Site in Map View
- Using the Locate in Site Feature
- Checking for Browser Compatibility

## Lesson 15: Publishing & Managing Your Website

- Setting Up a Site
- Setting Up the Server Information for FTP
- The FTP File Panel Options & Viewing Remote Files
- Transferring Files to & from a Server
- Working with the Synchronize Button
- Alternative Dedicated FTP Programs
- Activating Team Management Features
- Using the File Check In & Check Out Features
- Working with Design Notes
- Setting Options in the File View Columns Dialog Box
- Enabling Cloaking
- Using the Compare with Remote Function

## Lesson 16: Working in the Code

- Introducing HTML
- Previewing Code in a Browser
- Editing HTML
- Exploring Code View Options
- Setting Preferences
- Using Code Hints
- Editing Tags & Creating Snippets
- Using the Code Inspector & Cleaning Up HTML

## Lesson 17: Building a Dynamic Website: Setting Up Pages

- Viewing Database Structures
- Accessing Dynamic Content Data Sources
- Adding Server Scripts & Reusable Code
- Creating Record Sets\
- Inserting Record Sets into Tables
- Creating & Formatting Repeating Regions
- Adding a Dynamic Image
- Binding a Dynamic Image
- Adding Navigation to a Dynamic Page

## Lesson 18: Troubleshooting Your Website

- Using Layers & Tables Appropriately
- Converting Layers to Tables
- Linking Images to Pages
- Setting Up the Check Browser Behavior
- Replacing HTML Code Using Find and Replace

