

Fundamentals of Web Design Outline

Version 1.2

Target Audience:

High School, Community College, and University students as well as transitional workers enrolled in the Cisco Networking Academy Program.

Prerequisites:

Students should have basic computer literacy and a basic understanding of the Web. Prior use of an Adobe product (such as Photoshop, Illustrator, or Premiere) desirable but not required.

Course Description:

Introduction to Web Design course focusing on the overall web site production processes, with particular emphasis on design elements involving layout, navigation and interactivity.

Lab Requirements:

Adobe Photoshop 6, Illustrator 10, Premiere 6, GoLive 6, LiveMotion 2

Minimum System Requirements:

PC:

- Windows 98, NT 4.0 (SP6), or Windows 2000
- 300Mhz processor or higher
- 64 MB of RAM to run one application at a time, 128MB of RAM to run at most two applications concurrently
- 500MB of available hard-disk space for all applications
- Color Monitor with 256-color (8-bit) or greater video card
- 800x600 or greater monitor resolution
- CD-ROM drive

Mac:

- PowerPC®-based Macintosh® computer
- Mac OS software version 9.0.4
- 64 MB of RAM to run one application at a time, 128MB of RAM to run at most two applications concurrently (with virtual memory on)
- 500MB of available hard-disk space
- 500MB of available hard-disk space for all applications
- Color monitor with 256-color (8-bit) or greater video card
- Monitor resolution of 800x600 or greater
- CD-ROM drive

Minimum Software Requirements:

- Internet Explorer 5+ or Netscape Navigator 4.7+
- Macromedia Flash 5+
- Adobe Acrobat Reader 3+
- Windows Media Player 7.1 or higher

Course Objectives:

Upon completion of this course, students will have an understanding of:

- Web site architecture, work flow and production processes
- Principles of graphic and content creation for online media
- Fundamental online graphic design principles including appropriate interactivity, content sensitive navigation schemes and user interface criteria
- Task-appropriate software tool selection
- Distinctive attributes of the Web as a unique medium
- Web animation techniques
- Web site accessibility
- Web site implementation and hosting
- Media skills necessary to become a web designer, either as an employee or freelance designer

The course does not cover essential information about:

- Advanced design skills.
- Web site back end technologies and hardware issues.
- Database-driven web sites.
- Video and audio media creation.
- Programming techniques.
- E-commerce.
- Large-scale web site development and deployment.
- 3-D design.
- Business management.
- Advanced interactive elements such as discussion forums, chat rooms, etc.

Chapter Overview

Introduction

1. [Foundations of Web Site Creation](#)
2. [Web Page Elements](#)
3. [Production Tools](#)

Pre-Production

4. [Pre-Production Process](#)

Production

5. [Layout and Design](#)
6. [User Interface Design](#)
7. [Accessibility Considerations](#)
8. [Media Creation](#)
9. [Interactivity](#)

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10. [Testing and Optimization](#)
11. [Implementation and Hosting](#)

Appendices:

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2. CSS Reference
3. Web Design Resources
4. Web User Profile
5. Best Practices
6. CWDSA Certification

Legend:

CIB = Classroom in a Book

PS = Photoshop

GL = GoLive

LM = LiveMotion

PR = Premiere

IL = Illustrator

Course Outline

1. FOUNDATIONS OF WEBSITE CREATION

OVERVIEW

OBJECTIVES

1.1 COURSE OVERVIEW

1.1.1 What to expect

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1.2.1 History of the Internet

1.2.2 The World Wide Web

1.2.3 Conceptual Model of the Web

1.2.4 Worldwide Web Organizations

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1.3.2 ISP

1.3.3 Dialup

1.3.4 High-Speed Internet Access

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1.4.2 Protocol

1.4.3 TCP/IP

1.4.4 HTTP

1.4.5 URL

1.4.6 FTP

1.4.7 Telnet

1.4.8 SMTP, POP3 and IMAP

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1.5.4 Internet Explorer

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1.6.7 Media Support

1.6.8 Other Functions

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- 1.8.3 Apple QuickTime
- 1.8.4 RealNetworks RealPlayer
- 1.8.5 Macromedia Flash Player
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- 2.1.2 Color
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- 2.1.4 Multimedia Elements
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- 2.4.3 Computer Delivery of Color
- 2.4.4 Color Spaces
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- 2.4.6 Color Value
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- 2.4.8 Web Safe Colors
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Appendices:

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2. CSS Reference
3. Web Design Resources
4. Web User Profile
5. Best Practices
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