

East Penn School District  
Secondary Curriculum

A Planned Course Statement  
for  
**Web Design I**

Course # 635

Grade(s) 9-12

Department: Computer & Business Applications

Length of Period (mins.) 41

Total Clock Hours: 63

Periods per Cycle: 6

Length of Course (yrs.) .5

Type of Offering:            required  elective

Credit: .5

Adopted: 6/8/09

Developed by:

John Dietrick  
Anne Nero

## Description of Course

### Course Title: Web Design I

**Description:** This course will provide students with the knowledge required to create Web sites using Adobe Dreamweaver and will include fundamental and advanced Web creation techniques. Upon successful completion of the course, students will be prepared to complete the **Adobe Certification Exams**. In the business and education community, job applicants with these certifications are recognized as highly skilled users of Adobe software.

#### Goals:

- Students will be able to:
  - develop a web page
  - insert and work with text, images, links, HTML tables, forms, media objects, library items and snippets
  - manage a web server and files
  - use styles and style sheets for design
  - create and use templates

#### Requirements:

- Prerequisite: None

#### Text:

- Bishop, Sherry, Adobe Dreamweaver CS4 – Revealed. New York: Cengage Learning, 2010.

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### Key to Levels of Achievement (Listed with each learning objective)

Awareness (A):	Students are introduced to concepts, forms, and patterns.
Learning (L):	Students are involved in a sequence of steps and practice activities which involved further development and allow evaluation of process.
Understanding (U):	Students demonstrate ability to apply acquired concepts and skills to individual assignments and projects on an independent level.
Reinforcement (R):	Students maintain and broaden understanding of concepts and skills to accomplish tasks at a greater level of sophistication.

**\*\* Standards are reflecting the National Educational Technology Standards for Students (NETS•S)**

Unit	Num	Objective	Level	Content	Evaluation	Standard
<b>I. Getting Started with Dreamweaver</b>	1	Students will: <ul style="list-style-type: none"> <li>• explore the Dreamweaver workspace</li> <li>• view a Web page and use Help</li> <li>• plan and define a Web site</li> <li>• add a folder and pages and set the home page</li> <li>• create and view a site map</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>II. Developing a web page</b>	2	Students will: <ul style="list-style-type: none"> <li>• create head content and set page properties</li> <li>• create, import, and format text</li> <li>• add links to Web pages</li> <li>• use the History panel and edit code</li> <li>• modify and test Web pages</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>III. Working with Text and Images</b>	3	Students will: <ul style="list-style-type: none"> <li>• create unordered and ordered lists</li> <li>• create, apply, and edit Cascading Style Sheets</li> <li>• add styles and attach Cascading Style Sheets</li> <li>• insert and align images</li> <li>• enhance an image and use alternate text</li> <li>• insert a background image and perform site maintenance</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)

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<b>IV. Working with Links</b>	4	Students will: <ul style="list-style-type: none"> <li>• create external and internal links</li> <li>• create internal links to named anchors</li> <li>• insert rollovers with Flash text</li> <li>• create, modify, and copy a navigation bar</li> <li>• create an image map</li> <li>• manage Web site links</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>V. Using HTML Tables to Lay Out a Page</b>	5	Students will: <ul style="list-style-type: none"> <li>• create a table</li> <li>• resize, split, and merge cells</li> <li>• insert and align images in table cells</li> <li>• insert text and format cell content</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>VI. Managing a Web Server and Files</b>	6	Students will: <ul style="list-style-type: none"> <li>• perform Web site maintenance</li> <li>• publish a Web site and transfer files</li> <li>• check files out and in</li> <li>• cloak files</li> <li>• import and export a site definition</li> <li>• evaluate Web content for legal use</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)

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<b>VII. Using Styles and Style Sheets for Design</b>	7	Students will: <ul style="list-style-type: none"> <li>• create and use embedded styles</li> <li>• modify embedded styles</li> <li>• work with external CSS style sheets</li> <li>• work with conflicting styles</li> <li>• use coding tools to view and edit styles</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>VIII. Collecting Data with Forms</b>	8	Students will: <ul style="list-style-type: none"> <li>• plan and create a form</li> <li>• edit and format a form</li> <li>• work with form objects</li> <li>• test and process a form</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>IX. Positioning Objects with CSS</b>	9	Students will: <ul style="list-style-type: none"> <li>• create a page using CSS layouts</li> <li>• add content to CSS layout blocks</li> <li>• edit content in CSS layout blocks</li> <li>• insert an AP div</li> <li>• set the position and size of an AP element</li> <li>• add content to an AP element</li> <li>• use the AP Elements panel</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)

Unit	Num	Objective	Level	Content	Evaluation	Standard
<b>X. Adding Media Objects</b>	10	Students will: <ul style="list-style-type: none"> <li>• add and modify Flash objects</li> <li>• add rollover images</li> <li>• add behaviors</li> <li>• add Flash video</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>XI. Creating and Using Templates</b>	11	Students will: <ul style="list-style-type: none"> <li>• create templates with editable regions</li> <li>• use templates to create pages</li> <li>• use templates to update a site</li> <li>• use advanced template options</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)
<b>XII. Working with Library Items and Snippets</b>	12	Students will: <ul style="list-style-type: none"> <li>• create and modify library items</li> <li>• add library items to pages</li> <li>• add and modify snippets</li> </ul>	L	<ul style="list-style-type: none"> <li>• Text book illustrations</li> <li>• Instructor prepared notes</li> <li>• Student use of computer</li> <li>• Instructor demonstrations using projected screen image and/or CrossTec SchoolVue Software</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Observations</li> <li>• Oral and written questions</li> <li>• On-screen observation</li> <li>• A completed Web site</li> <li>• Adobe Certification Exams</li> </ul>	<b>NETS:</b> 1a, 1b, 2a, 2b, 2d, 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5a, 5b, 5c, 5d, 6a, 6b  <b>PA Standard:</b> 3.7.10 (C) 3.7.10 (D)

**National Educational Technology Standards and Performance Indicators for Students**

The Nets are divided into the six broad categories that are listed below.

**1. Creativity and Innovation**

Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

- a. apply existing knowledge to generate new ideas, products, or processes.
- b. create original works as a means of personal or group expression.
- c. use models and simulations to explore complex systems and issues.
- d. identify trends and forecast possibilities.

**2. Communication and Collaboration**

Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students:

- a. interact, collaborate, and publish with peers, experts or others employing a variety of digital environments and media.
- b. communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- c. develop cultural understanding and global awareness by engaging with learners of other cultures.
- d. contribute to project teams to produce original works or solve problems.

**3. Research and Information Fluency**

Students apply digital tools to gather, evaluate, and use information. Students:

- a. plan strategies to guide inquiry.
- b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.
- c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks.
- d. process data and report results.

**4. Critical Thinking, Problem-Solving, and Decision-Making**

Students use critical thinking skills to plan and conduct research, manage projects, solve problems and make informed decisions using appropriate digital tools and resources. Students:

- a. identify and define authentic problems and significant questions for investigation.
- b. plan and manage activities to develop a solution or complete a project.

- c. collect and analyze data to identify solutions and/or make informed decisions.
- d. use multiple processes and diverse perspectives to explore alternative solutions.

**5. Digital Citizenship**

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:

- a. advocate and practice safe, legal, and responsible use of information and technology.
- b. exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.
- c. demonstrate personal responsibility for lifelong learning.
- d. exhibit leadership for digital citizenship.

**6. Technology Operations and Concepts**

Students demonstrate a sound understanding of technology concepts, systems and operations. Students:

- a. understand and use technology systems.
- b. select and use applications effectively and productively.
- c. troubleshoot systems and applications.
- d. transfer current knowledge to learning of new technologies.