

Effective Date: 2009-10

Hamburg Area School District

Name of Course: Digital Photography
Department: Industrial Technology and Engineering
Instructional Time: 180 days

Grade Level: 9-12
Length of Course: 30 cycles
Period Per Cycle: 6
Length of Period: 43 minutes

Texts and Resources:

Learning Photoshop CS4
Photography magazine
Freefoto.com
Visual Quickstart Guide Photoshop CS4
Photo.net
Learning Media Design with Adobe CS4
Teach Yourself Visually Digital Photography
The Everything Photography Book
How To Do Just About Anything With Your Digital Camera
Using Your Digital Camera
Photoshop Elements 2 Special Effects
Field Trips
Microsoft Photostory 3
Microsoft Word
Microsoft Publisher
Microsoft Powerpoint
Adobe Photoshop CS4
Adobe Photoshop Elements 2.0
Internet sites
Tripods
Computer Websites
Atomic Learning Website

Assessments:

Portfolios
Individual Photo Projects
Group Photo Projects
Individual Tutorial Projects
Test/Quizzes
Self Evaluations
Class Presentations
Teacher Conferences
Rubrics
Demonstrations
Chapter Questions

**Hamburg Area School District
Course Plan
(Industrial Technology & Engineering)**

**Course Name: Digital Photography
Unit: Introduction to Photoshop**

Time Line: Five Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
The Work Area	<ul style="list-style-type: none"> • Identify different features of Photoshop’s work area, including menus, tools, tool options, and palettes • Modify Photoshop’s work area using a variety of methods • Reset Photoshop’s work area • Change and reset the foreground and background colors 	3.7.10 C,D,E
Resolution	<ul style="list-style-type: none"> • Explain the relationship between pixels and resolution • Use the zoom tool and hand tool to magnify and scroll around an image • Resize images using multiple methods • Differentiate between image resolution and printing resolution • Describe how to use a scanner to capture an image at a desired resolution • Describe how to use a digital camera to capture an image at a desired resolution 	3.7.10 C,D,E
Camera Operation	<ul style="list-style-type: none"> • Identify the parts of a camera • Understand the different modes and the applications • Understand the menu options and their settings • Understand the zoom and wide angle feature • Capture basic images • Download images to a computer 	3.6.12 B 3.7.10 A 3.7.12 A
Composition	<ul style="list-style-type: none"> • Identify the basic rules of composition • Understand the need for the rules of composition • Identify the key elements for each of the rules of composition • Capture images using the basic rules of composition 	3.6.12 B

**Hamburg Area School District
Course Plan
(Industrial Technology & Engineering)**

**Course: Name: Digital Photography
Unit: Photography Project**

Time Line: One Cycle

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Desk top/Screensaver Project	<ul style="list-style-type: none">• Capture images on a digital camera• Download images to computer• Save images as a JPEG file type• Resize images• Reset resolution• Create desktop and screensaver images	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
(Industrial Technology & Engineering)**

**Course Name: Digital Photography
Unit: Tools**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Selection Tools	<ul style="list-style-type: none"> • Explain the purpose of Photoshop’s selection tools • Explain what anti-aliasing does to the edge of a selection • Create rectangle and square selections with the rectangle marquee tool • Create oval and circular selections with the elliptical marquee tool • Trim images with the crop tool • Create selections with the lasso tool, polygonal lasso tool, and magnetic lasso tool • Select similarly colored areas of an image with the quick selection tool • Select similarly colored areas with the magic wand tool • Describe the selection commands found in the select menu • Remove a fringe from a selected portion of an image • Describe how to use the new selection, add to selection, subtract from selection and intersect with selection buttons that most selection tools have • Identify situations that you may want to feather a selection 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
(Industrial Technology & Engineering)**

**Course Name: Digital Photography
Unit: Layers**

Time Line: Three Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Introduction to layers	<ul style="list-style-type: none"> • Create a new file • Explain how the move tool is associated with layers • Transform a layer, selected area, or image using a variety of methods • Use Photoshop's grid, guides, and snap command to line up elements of a design • Create layers using several different methods • Organize layers in the layers palette using several different methods • Describe the difference between grouping, linking, and merging layers • Differentiate between merging layers and flattening an image • Control the opacity of a layer • Protect layers by locking their content 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
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Course Name: Digital Photography

Unit: Photography Project

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Landscape Photography	<ul style="list-style-type: none">• Recognize the ingredients of quality landscape images• Capture quality landscape images• Download images to computer• Edit landscape images using the CS4 software• Output images to laser jet printer• Size and mount images onto a mat board frame	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
(Industrial Technology & Engineering)**

Course Name: Digital Photography
Unit: Text/Vector graphics

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Text, Shapes, and Layer Styles	<ul style="list-style-type: none"> • Explain the difference vector and bitmap graphics • Enter and edit text using the type tools • Find special text characters and insert them into your file • Use the type masking tools to create a selection • Fine tune the appearance of text using the character and paragraph palettes • Explain why it is sometimes necessary to rasterize text and shapes • Create simple and complex shapes using the shape and pen tools • Discuss how to create your own custom shapes • Use the path palette to convert paths into Photoshop features • Apply layer styles to your projects using both the layer menu and the styles palette 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
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**Course Name: Digital Photography
Unit: Photography Project**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Macro Photography	<ul style="list-style-type: none">• Recognize the ingredients of quality macro images• Identify macro images• Capture quality macro images• Download images to computer• Save images to school assigned student drive• Edit macro images using Photoshop CS4 software• Output macro images to the laser jet printer• Size and mount images onto a mat board frame	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
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**Course Name: Digital Photography
Unit: Tools and Filters**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Painting tools	<ul style="list-style-type: none"> • Apply paint to an image using the brush tool • Select and modify brush style using the brush preset picker and the brushes palette • Differentiate between the image size and canvas size commands • Paint patterns in an image using the pattern stamp tool • Select and organize patterns using the pattern picker • Explain the difference between the brush tool and pencil tool • Use the smudge tool to create a “smeared” look • Sample a color in an image with the eyedropper tool • Create different styles of gradients with the gradient tool • Edit a gradient using the gradient editor • Fill an area with color with the paint bucket • Fill an area with a color pattern using the fill command • Recognize how filters are organized in the filters menu • Manipulate an image with the tools found in the liquify filter • Create a tillable pattern with the pattern picker filter 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
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**Course Name: Digital Photography
Unit: Photography Project**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Architecture Photography	<ul style="list-style-type: none">• Recognize the elements of quality architectural photography• Identify architectural images• Capture quality architectural images• Download images to the computer• Save images to school assigned student drive• Edit architectural images using the Photoshop CS4 software• Output architectural images to laser jet printer• Size and mount images onto a mat board frame	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
(Industrial Technology and Engineering)**

**Course Name: Digital Photography
Unit: Erasing, Deleting and Undoing**

Time Line: One Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Erasing, Deleting and Undoing	<ul style="list-style-type: none"> • Remove unwanted pixels with the eraser tool • Explain how the eraser tool's function is dependent on whether layer transparency is locked or not • Create partially-transparent areas with the eraser tool • Delete pixels with the background eraser tool • Compare the similarities between the magic eraser tool and the magic wand • Remove unwanted pixels with the magic eraser tool • Describe three different ways you can use the history palette • Explain how the history brush tool works together with the history palette • Use the history brush tool to restore part of an image to a previous condition • Use the art history brush and the history palette to add paint stroke effects to an image • Delete unwanted pixels by using the extract filter • Explain the purpose of the reveal all command • Compare the trim command and the crop tool 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
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**Course Name: Digital Photography
Unit: Photography Project**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Portrait Photography	<ul style="list-style-type: none">• Recognize the elements of quality portrait photography• Identify portrait images• Capture quality portrait images• Download images to the computer• Save images to school assigned student drive• Edit portrait images using Photoshop CS4 software• Output images to laser jet printer• Size and mount images to a mat board frame	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
(Industrial Technology and Engineering)**

**Course Name: Digital Photography
Unit: Photo Restoration**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Restoring and Retouching Photos	<ul style="list-style-type: none"> • Discuss the difference between restoring and retouching a photo • Explain what happens to a photo when it is sharpened • Sharpen a photo using the unsharp mask or smart sharpen filter • Sharpen or blur a small part of a photo using the sharpen tool and blur tool • Define the term “noise” as it applies to an image • Compare and contrast the four filters that remove noise from an image • Remove blemishes from an image with the spot healing brush tool • Correct red eye problems in a photo with the red eye tool • Explain how the clone stamp tool is used to remove unwanted objects in a photo • Use the clone stamp tool to retouch and manipulate photos • Describe how the clone source palette can be used along with clone stamp tool or the healing brush tool • Use the vanishing point filter to maintain the proper perspective while retouching images that contain rectangular objects 	3.7.10 C,D,E 3.7.12 D,E

**Hamburg Area School District
Course Plan
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**Course Name: Digital Photography
Unit: Color Correction**

Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Introduction to Color Correction	<ul style="list-style-type: none"> • Describe three ways to preserve your original image before adjusting it • Adjust color, contrast, or brightness with the variations command • Explain the difference between shadows, midtones, and highlights • Discuss how to use an RGB/CMY color wheel to determine how to correct a color cast • Differentiate between brightness and contrast • Recognize the difference between hue and saturation • Use the hue/saturation command to change the colors of an image • Explain how the replace color command is similar to the hue/saturation command • Use the color replacement tool to change colors of objects in an image • Remove or intensify color in an image using the sponge tool • Use the dodge tool to lighten colors in an image • Use the burn tool to darken colors in an image • Convert an image into black and white using the black and white command • Adjust the color in an image using gradients and blending modes • Adjust the color in an image with Photoshop's one-step color correction tools • Explain the purpose of the threshold command • Describe how adjustment layers are used to correct color in an image 	3.7.10 C,D,E 3.7.12 D,E

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Time Line: Two Cycles

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
Create a Music Slide Show	<ul style="list-style-type: none"> • Recognize the elements of a quality music slide show • Capture quality images with the theme of the slide show as a guide • Download images to a computer as J-Peg files • Use MS Photo Story 3 software to compile and create filmstrip/slide show • Use MS Photo Story 3 software to add a music track that is appropriate for the slide show content • Use MS Photo Story 3 software to add and edit captions to the slide show • Music slide show must be finished and saved as an MNV file type • Present the music slide show to the class • Create and present a contact sheet for the portfolio 	3.7.10 C,D,E 3.7.12 D,E