Course title: Digital Imaging
Course number: GRA 230
Credits: 3 Semester Hours
Prerequisite: Knowledge of a word processing program & eligibility for Eng 101
Grading System: A (94-100), A-(90-93),B+(87-89), B (83--86), B-(80-82),C+(77-79),C (73-76), C-(70-72), D+ (67-69), D(63-66), F (below 63).

Course Description and Rationale - Digital Imaging

Adobe Photoshop CS3 is the focus of this course which will provide the student with a foundation in image manipulation and graphic design. Layers and layer effects; image adjustment; blending modes; nested palettes of selection, painting, and correction tools and other Photoshop processes will be addressed. Students will also study design principles.

General Course Goals

At the completion of the semester, students should be able to use Photoshop to design images (composite and single) and documents using design principles in the literature.

The required skills include but are not limited to the following:

1. Resize headshots - all sized the same.
2. Use blending modes
3. Work with multiple layers
4. Adapt color for the web
5. Design and prepare composite images
6. Work with masks and channels
7. Create clipping paths
8. Work with color in the context of commercial printing
9. Use image filters
10. Apply design principles to original compositions
11. Work with multiple graphic formats
12. Create gradients
13. Use pen tool techniques
14. Use advanced photo correction techniques
15. Combine Illustrator graphics and Photoshop images
16. Slice images for the web
17. Set up a monitor for color management
18. Create an animated image
19. Optimize images for the web.
20. Read and report on Photoshop artist or Photoshop problem solving

Instructional Modes

Computer graphics, scanning, digital camera use, page design, page layout, hands-on computer instruction, individual and group editing.

Instructional Materials

Ben Wellmore, Photoshop CS3 Studio Techniques, Peachpit Press, Berkeley: 2008.
Photoshop CS3 Visual QuickStart, Peachpit Press, Berkeley: 2007.
flash drive, CDs, handouts Blackboard/Vista

Course Skills and Class Assignments

See schedule of Course Skills and Class Assignments attached.

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Evaluation

Students will be evaluated on the basis of weekly projects, discussions, and other assignments. The last assignment will be a capstone project. Grading for each assignment are listed with the assignment. Students will be expected to work on their assignments at home or in the computer lab every week and to turn them in by the stated deadline.

Students who miss one or zero classes will have 5 points added to their final average.

Class topics and assignments

The instructor may change the order of topics and/or the content of the assignments to meet the needs of the class. Additional assignments will be made during class time during the course of the semester.

Plagiarism:

Plagiarism is a violation of academic honesty. It occurs when you take credit for someone else's work (words, images, design) and submit it as your own, either intentionally or through incomplete documentation of sources. Any plagiarized work in a document will result in an F for the project.

College Withdrawal Policy

A student who finds it necessary to discontinue a course once class has met must provide written notice to the Registrar. Withdrawal forms are available at the Registrar's office on campus and the Three Rivers office at the Subase. Non-punitive "W" grades are assigned to any withdrawal requested before the various unrestricted withdrawal deadlines listed in the calendars published in front of each session's course listings. Withdrawal requests received after these deadlines must bear instructor signatures indicating the student was maintaining at least a C- average at the time of withdrawal. No withdrawals are permitted after the last class preceding the final exam.

Disabled Students and Learning Disabilities Support

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact the Disabilities Counseling Services at 383-5240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible. Please note that I cannot provide accommodations based upon disability until I have received an accommodation letter from the Disabilities Counselor. Your cooperation is appreciated.

Cellular phones and beepers

Cellular phones and beepers are allowed in class only if they are turned off or turned to a silent mode. Under no circumstances are phones to be answered in class. Text messaging is also not permitted in class. When there are extenuating circumstances that require that a student be available by phone or text, the student should speak to the instructor prior to class, so that together they can arrive at an agreement.

Email

Students are encouraged to use email to communicate with me. When you compose your message, be sure to use a relevant word for the Subject. Do not use "Hello," "Hi," "It's Me" or similar terns. Because these are used by spammers, I usually delete them without opening them.

Note: We will do classes 1 thru 9 in seven weeks; then spend the week 8 perfecting Digital Wizard Contest entries

Class #1   **Type (CD Bonus Ch 4) & Chapter Title Pages**
· Review CS# work area
· Chapter 1 Tool and Palette Primer
· Review and use Character palette
· Review and use Paragraph palette
· Use PSCS3 advanced features for type
· Review and use type features in Edit menu
· Use extra choices under Type tool
· Analyze an image from chapter title page

Assignment for Class 2*
Read pages 1-18 in Bonus Chapter 4 on your CD
1. Create a new tabloid size Photoshop image and create separate text blocks for each of the following figures, using the features described: Figures 4.5, 4.7, 4.9, 4.10, 4.12, 4.16, 4.17, 4.18, 4.22, 4.25, 4.27, 4.28, 4.29, 4.30, 4.37.
2. Select an image from one of the 16 chapter title pages. Then describe your reaction to it. Then describe how using Photoshop must have worked to create or enhance that particular image. Present to class next week.

Class #2   **Ch.2 Making Selections**
· Use basic selection tools
· Use Magic Wand tool
· Refine a selection
· Use the Select menu
· Work with Quick Mask Mode

Assignment for Class 3*
Prepare the following images, placing them in your folder: Figures 2.17, 2.31, 2.32, 2.33, 2.34, 2.44, 2.45, 2.46.

Class #3   **Ch. 3 Layers Primer**
· Create Layers
· Change Stacking order
· Use background & change layer opacity
· Select multiple layers & move layers
· Link & trim layers
· Copy layers between documents
· Duplicate, delete, transform, merge, lock layers
· Use layer styles, fill layers, adjustment layers
· Apply blending modes to layers

Assignment for Class 4*
1. Start new file as described on p.109, completing it so it looks like Figure 3.21. Name it Shapes.
2. Using Layers Example Collage from the CD, crop it as in Figure 3.28
3. Using red haired beauty from the CD, type the word fresh and apply a layer styles to it as indicated on pages 124 &125.
4. Do Creative Assignment #1 - handout

Class #4   **Ch. 4 & 5 Optimizing Grayscale Images & Understanding Curves**
· Use Brightness/Contrast on grayscale images
· Use Shadow/Highlight to adjust images
· Use Levels to adjust highlights, shadows, midtones
· Use Curves to pull out details
· Use Curves to lighten and darken areas
· Use Curves to enhance color and contrast
· Connect Curve dialog box with Histogram

Assignment for Class 5**
Make changes described in chapter 5 to the following images: Figure 5.40 final curve of image (curves original 2), 5.9 (curves original 3), 5.30 (improve dark image), 5.34 (steeper curve), 5.73 (add brightness),5.90 adjust contrast.

Class #5   **Ch. 5 Color Management (Ch. 6) & Retouching (pp.482-495)**
· Identify ICC profiles
· Choose RGB workspace
· Create monitor & printer profiles
· Convert from RGB to CMYK
· Use Patch, Healing Brush, Spot Healing Brush & Clone Stamp tools

Assignment for Class 6*
1. Using the skills you learned about Levels and Curves, bring out the details in the image called NYC. Convert it to CMYK and assign it a color profile.
2. Read pp. 482-295 and practice with the sample images. Then retouch the following 15.1 (patch tool 1), 15.14 (Patch tool 5), 15.20 (healing brush 1), 15.35 (clone stamp 1)
3. Go on the web and find a video demonstrating extensive retouching using Photoshop to show class.

Class #6   Color Manipulation – Chapter 9
· Learn about the color wheel
· Use the Hue/Saturation dialog box
· Change from color to grayscale
· Replace color
· Use the Variations adjustment
· Change color balance
· Use Levels & Channel Mixer for Grayscale
· Use Auto Color
· Match colors
· Use the Red Eye tool &Gradient Map
Intro Digital Wizard Contest

Assignment for Class 7
1. Follow the directions in Ch.9 to color manip-ulate the following: Figures 9.10 (canoes), 9.15 (sunflower), 9.21 (Leaning Tower), 9.37 (pink flowers), 9.40 (finger on chin), 9.65 (window), 9.77 (sports cars).
2. Do Creative Project #2 - handout
3. 1. Access 2008 Digital Wizard Contest at www.popphoto.com. Go to the Contests tab. Download all 12 contest images and print out the contest rules. Rename the images and save them on a CD. Your entry = 25% of grade.

Class #7   Adjustment Layers – Chapter 10
· Using Adjustment Layers
· Make Photo Filter Adjustments
· Use blending modes
· Use Layer Masks
· Use Quick Mask mode

Assignment for Class 8
1. Using Practice image Hue/Mode, make an adjustment layer as in Figure 10.4 using any available adjustment you want (Hue/Saturation, for example.) Then lessen the effect by lower-ing the opacity of the adjustment layer.
2. Using the photo in Figure 10.13 (photo filter 1), make the changes in the book. Then mask out all but the sky, following the masking in-structions on pp.317-8.
3. Adjust figure 10.26 (luminosity mode) 4. Ad-just figure 10.34 (layer mask) using layer mask

Class #8   Sharpening (Ch.11) & Shadows (Bonus Ch.3)
· Reduce photo noise using five main Filters.
· Use Unsharp Mask for Amount, Radius, Threshold
· Use History Brush to reclaim detail
· Use Advanced Mode to sharpen shadows/highlights
· Use advance processes to sharpen Luminosity and the Black Channel
· Create four kinds of shadows

Assignment for Class 9
1. Using Figure 11.36 "Sharpen Tree," do all the processes through 11.40.
2. Using Figure 11.52 "Red Wall with Window," sharpen as indicated through 11.54.
3. After reading the Bonus Chapter 3, create shadows on all four practice images, as indi-cated in your chapter.

Class #9   Blending Modes (Ch. 12) & Digital Wizard
·Adjust color, intensity,
·Use levels-adjust midtone, highlight, shadow
·Crop photo
· Digital Wizard entry turned in (25% of grade).

Assignment for Class 10
1. Turn in the following images after hav-ing completed the processes described in the chapter: Figure 12.5 (behind mode), 12.17(mul-tiply mode 1 & 2), 12.26 (multiply mode 6 & 7), 12.47 (lighten mode 3), 12.50 (glowing edges), 12.56 (screen mode 1 & 2), 12.73 (soft light mode 2 & 3). All images must first be cropped to remove the advertising bar at the bottom.
2. Finish Digital Wizard entry in class.

Class #10   Advanced Masking (Ch.13)
· Use Background Eraser, Extract Command, Blending slider, Channels, Pen Tool and Layer Masks to isolate images from backgrounds.

Assignment for Class 11
1. Creative Project 3 - handout
2. Select a topic and date for your Photoshop report. Sign up for the date for your report us-ing the Calendar in class

Class #11   Collage (Chapter 14)
· Use Clipping Masks combined with other techniques to blend images
· Use Blending Sliders combined with other techniques to blend images
· Use Layer Masks combined with other techniques to blend images
· Create panoramic image
· Warp image to blend with underlying image

Assignment for Class 12**
Before working with the chapter's images, change the Background Layer to Layer 0 to unlock it. Then crop off the advertising banner.
1. Complete the processes on the following images: Figures 14.3 clipping mask, 14.13 blending sliders 1& 2, 14.18 Blending sliders 3, 14.28-30 Enhancing clouds 1 & 2, 14.35 Layer mask 1, 14.62-65 Interesting edges, 14.70-80 move layer mask 1 & 2; 14.90-94 all pano images, figure 14.133-138 warp 1 & 2.
2. Extra credit: complex collage. See handout.

Class #12   Collage, part 2, Resolution, more retouching
· Use collage techniques from previous chapter
· Clone between documents
· Use Vanishing Point
· Use Dodge and Burn tools
· Note resolution when combining images

Assignment for Class 13**
Read pages 491-509 in the Retouching chapter and pages 16 ff. in the Resolution Bonus Chapter on your CD.
1. Use Vanishing Point to add windows to Figure 15.63 (vanishing point 2) so that it resembles figure 15.65.
2. Create a poster for a movie, book, or theatrical production -handout

Class #13   Ch. 5 Critiques and Workflow (Ch.16)
· Recognize workflow for digital photographs
· Synthesize material from previous chapters as it appears in the Workflow chapter.
· Critique student poster images
· Begin final project

Assignment for Class 14
Start final project (25% of grade). This is a large format composition image that has a theme. Format: 300 dpi; 11x17 inches or 17x11 inches or 24x36 inches ; CMYK; saved as Photoshop EPS; printed on high quality paper. Submit digital form on a CD as well as a printed copy. See handout for more details.

Class #14   Final Project workshop
· Use of scanner for a 3-dimensional object.
· Research on web or in print about custom brushes or patterns
· Use of custom brush/and or pattern
· Research on web/print about composition

Final Project due May 11
All Photoshop reports due May 4.

Class #15   Art show of final projects