

New York City College of Technology
The City University of New York

Department of Communication Design

CDMG 2316 – Advanced Image Editing

Course Description

An advanced course that continues to develop the ability to capture, color correct, adjust tonal levels and curves and retouch bitmapped images. Students learn how digital cameras and high-end scanners capture images and how to provide optimized files. Students are exposed to professional techniques for making corrections and altering pictures to match a client's instructions, using software such as Adobe Photoshop. Introduction to professional photography database and processing software such as Adobe Lightroom, Adobe CameraRaw and Phase One Capture One. For students planning to continue for the Bachelor of Technology degree.

3 Credits, 4 Hours (2 lecture, 2 lab)

Prerequisites

COMD 1162 Raster & Vector Graphics

Course Objectives

INSTRUCTIONAL OBJECTIVES	ASSESSMENT
For the successful completion of this course, students should be able to:	Evaluation methods and criteria
(1) Define and clarify terminology, concepts, and applications for photocompositing.	(1) Use of appropriate and accurate terminology;
(2) Identify and determine critical comparisons among various page and publication manufacturing methodologies.	(2) Use of appropriate and accurate specifications;
(3) Describe the underlying principles and concepts that are essential for managing impositions, plates and proofs.	(3) Demonstrate application of knowledge;
(4) Reflect learning from engaging challenging resource material that a student will interpret appropriately and accurately in his/her own words.	(4) Presentation of original material;
	(5) Citation and documentation of supporting material.

General Education Outcomes

General Education Outcome covered:	How the outcome is covered:
Students will demonstrate the ability to find proper resources.	Given a set of raw images students will be able to process, color correct and retouch them using the appropriate software and tools
The student will demonstrate the ability to evaluate evidence and apply reasoning to make valid inferences.	Students will be able to analyze a set of images and use critical thinking to figure out the best way to photorealistically create a photomontage using appropriate software
The student will demonstrate the ability to evaluate strengths and relevance of arguments on particular issue.	Students will use critical thinking to analyze images from contemporary media and determine their merit or value.

Teaching/Learning Method

Students in this class are expected to explore, construct and demonstrate knowledge of the technology, terminology, skills, tools, policies and procedures to understand the applied theory and management of digital imaging production. This includes the fundamentals of publication production, analysis, editing, storage, output, distribution technologies and processes. This also includes concepts and best practices relating to digital image database management, raw file processing, retouching, color correction, and photo-compositing. Students are expected to work individually to document, analyze and apply learning about key digital imaging production topics and concepts. Each student is required to demonstrate an understanding of the topics from reading resource material and completing written assignments prior to the class sessions. Students are expected to articulate their thoughts during class sessions in the form of written reports, discussions, hands-on assignments and presentations.

A written mid-term exam will cover subject matter and presentations covered in class.

The Blackboard internet application is used in this course to provide access to course materials, keep current with course developments and allow students to communicate, collaborate and submit course assignments inside and outside the classroom. The Horizon Wimba collaborative function of Blackboard is used to enhance the learning environment inside the classroom beyond the ambiance of a single projector and screen. Horizon Wimba also allows students to collaborate on projects and develop more focused critical thinking regarding the course material and assignments.

Required Text

- **Photoshop Masking & Compositing (2nd Edition) (Voices That Matter), by Katrin Eismann, Sean Duggan, James Porto. New Riders. ISBN-13: 978-0321701008, September 3, 2012**
- Lectures, reference and supplemental materials will also be provided on Blackboard, Openlab or other web resource.

Suggested Texts

Photoshop CC for Windows and Macintosh: Visual Quickstart Guide .

Authors: Elaine Weinmann, Peter Lourekas. Publisher: Addison-Wesley, June 2007. ISBN-10: 0321473795. ISBN-13: 9780321473790

Real World Adobe Photoshop CC. By Bruce Fraser and David Blatner.

Published by Peachpit Press, Oct 21, 2005. ISBN-10: 0321115600
ISBN-13: 978-0321115607

The Adobe Photoshop Lightroom 5 Book for Digital Photographers (Voices That Matter). By Scott Kelby. Published by Peachpit Press, May 2012. ISBN10: 0321819586

Periodicals:

American Printer, Graphic Arts Monthly, American Printer, Printing Impressions, Printing News, Print Magazine.

Attendance (College) and Lateness (Department) Policies:

A class roster roll will be taken at the beginning of each class. Only two absences may be allowed. After two absences, a student may be withdrawn because of unsatisfactory attendance (code WU). Students arriving after the roll is taken will be marked "late." Students may be notified at the earliest opportunity in class after they have been absent or late. After being absent two times or equivalent (2 lateness = 1 absence), a student may be asked to withdraw from the class (code W before the College drop deadline) or may be withdrawn from the class (code WU).

Academic Integrity Standards

You are responsible for reading, understanding and abiding by the NYC College of Technology Student Handbook, "Student Rights & Responsibilities," section "Academic Integrity Standards." Academic dishonesty of any type, including cheating and plagiarism is unacceptable. "Cheating" is misrepresenting another student's efforts/work as your own. "Plagiarism" is the representation of another person's work, words or concepts as your own.

Grading

- Class Participation 10%
- Quizzes 10%
- Papers 20%
- Projects 40%
- Presentations 20%

Topics

WEEK	Lecture Topic	Laboratory Exercise	Homework Assignment
1	Orientation: Presenting an outline of the subjects and objectives which are the focus of this course, plus a review of digital imaging fundamentals (from ADV 1162). Discussion of career opportunities, rates, and what is included in a professional retouching portfolio.	Review factors and functions of basic digital imaging from prerequisite course material.	Reading portion on ethics of retouching. Bring photos from photography class.
2	Layers: Planning image edits, masking tools and clipping groups, managing file sizes, layer options, transparency, adjustment, and linking layers. The use of adjustment layers for tone, for color control, and as a creative tool. Resolution: Discussion of resolution and pixel size and what is appropriate for high resolution professional imagery and how to analyze an image for this.	Following directions for the assignment, make image edits, manage file sizes, use layer options, transparency, adjustment, and linked layers. Use adjustment layers. Show how to find image size and resolution information.	Edit photos brought to class: crop, color correct, selectively mask. Choose (shoot or from archive) images suitable for compositing to bring for class 3.
3	Color: Making and applying ICC color profiles and other advanced color management.	Apply ICC color profiles to assigned images. 2, 8, 16, 24-bit color	Collect/take and then bring photographs to be color corrected in week 9.

4	<p>Tone & Color Adjustment: Setting white point and black point. Removing color casts. Preparing files and preferences for RGB to CMYK conversions. Unsharp masking.</p>	<p>Make tone and color adjustments on assigned images.</p>	<p>Make an archive of your photos</p>
5	<p>Applying color: Coloring black-and-white images, duotones, spot color channels, 4-color black and white, hexachrome, spot varnishes.</p>	<p>Color black-and-white images to duotones and spot color channels.</p>	<p>“Colorize” a black and white image of student’s choice using techniques shown in class.</p>
6	<p>Selection & Masking Techniques: Quick mask mode, channels, controlling the edges of masks and selections, making photo-realistic composite images.</p>	<p>Following directions for the assignment, make saved selections and use masking techniques to create a composite.</p>	<p>Use masking techniques to create a composite image. Demo using images provided, followed by students using photographs they brought with them.</p>
7	<p>Photomontage: Advanced, creative, efficient montage and photo-realistic compositing techniques. Selecting and masking techniques. Using layer masks and clipping groups. Applying other layer options and mode settings. Blending separate images into a seamless panorama.</p> <p>Shadows: Creating realistic shadows for composited or montage elements.</p>	<p>Using assigned images, create a montage using photo-realistic compositing techniques.</p> <p>Create realistic shadows for assigned images in composited or montage elements.</p>	<p>Continue working on the creation of a montage using photo-realistic compositing techniques.</p>

8	Midterm Project	Critique	Discussion of ideas generated in reflective writing assignment from week 6.
9	Field Trip: Retouching Studio		Continue working on the creation of realistic shadows for assigned images, black and four-color. Reflective writing assignment about what they learned on the field trip.
10	Retouching: Cleaning up faxed, scanned and transmitted graphics, moirés, descreening. Retouching with cloning techniques. Lecture on ethics surrounding retouching in culture. Copyright: Discussion of copyright and usage contracts.	Clean up assigned images. Follow directions to make cloned retouching. Lecture on copyright, stealing images, appropriation, and creative commons.	Continue working on the revisions to the document assigned in class. Reflective writing assignment: 2-page analysis of images in contemporary media to determine relevance, merit, and cultural worth – or should this be an analysis of provided examples, e.g. Dove “Real Beauty” campaign?
11	File Management: Calculating appropriate image resolution and working efficiently with large files. Lossy and lossless compression for image management and archiving.	Calculate appropriate image resolutions for assigned files. Critique of colorized images.	Write a summary of what you learned regarding lossy and lossless compression for image management and archiving.
12	Synergy with Other Desktop Publishing Methods: Placing	Optimize clipping paths from Illustrator to Photoshop and visa	Add type or other vector graphics to an image file as Smart Object, Paths,

	<p>Photoshop images in other applications such as Adobe Illustrator and InDesign. Saving images as TIFFs with transparency for ko'd background. Saving images as bitmaps so the color can be changed in other programs.</p>	<p>versa. Discussion of Smart Objects and the difference between "Placing" and "Pasting". Silhouetting images and saving with transparent background. Converting Image Mode to Bitmap and saving.</p>	<p>and Pixels. Assemble silhouetted images together with bitmapped images and type to create a poster. 2 week project.</p>
13	<p>Productivity with Images: Planning and production techniques to optimize the quality and efficiency of digital image editing. Appropriate use of shortcuts, function keys, context-sensitive menus. Introduce professional database and processing software for photography such as Adobe Lightroom, Adobe Camera Raw, Adobe Bridge, Aperture, and Phase One Capture One.</p>	<p>Practice use of shortcuts, function keys, context-sensitive menus. Demonstrate Actions and Automation in Photoshop and Bridge.</p>	<p>Create an action for changing file type and size and export that action so another user could adopt it.</p>
14	<p>Flexibility with Images: Strategies & techniques to edit files. Optimize tone and color when multi-purposing images for print &/or on-line.</p>	<p>Critique of posters. Practice editing assigned files with strategic challenges.</p>	<p>Study for final exam.</p>
15	<p>Final Project</p>	<p>Critique</p>	<p>DNA</p>