

DIGITAL IMAGING II
Instructor: Peter Thompson
Fall 2008
Revised 20081201

Course Information

Document Date/Semester	Fall, 2008
Course Numbers	23-3202-04
Class Time and Day	Thursday, 1PM
Classroom Building and Room Number	600 South Michigan Avenue, room 1103
Additional facilities, if applicable	Digital Imaging Lab, room 1100
Photography Department Website	http://www.colum.edu/undergraduate/photo/
College Name and Address	Columbia College Chicago 600 S. Michigan Ave. Chicago IL 60605
Digital Imaging Coordinator	Tom Shirley

Instructor Information

Name	Peter Thompson
Department Phone	312 344-7593
Studio Phone	773 404-2002
Email Address	peterchicagomediaworks@hotmail.com
Office Hours	Main Campus building, room 1106, Tuesdays, from 5-6PM, and Thursdays from 10-1. Telephone my studio (773 404-2002) to make an appointment for the time you would like (from 5 minutes to 1 hour).
Office Location	600 S. Michigan Avenue, room 1106
Mailbox Location	600 S. Michigan Ave., room 1200

Required Texts and Materials

Class website	http://www.chicagomediaworks.com
Text	ADOBE PHOTOSHOP CS3 STUDIO TECHNIQUES, by Ben Willmore. ISBN: 0-321-32189-8. \$50. Available at the Columbia College Bookstore, 624 S. Michigan Avenue, 1st floor, and at many other bookstores, including Amazon.com.
Supplies/Materials	You will be given a pack of 25 CD's-R's. You might need to buy additional CD-R's: 650-700MB (at least 25; available for approximately \$0.20 each at Microcenter and at many other stores).
Bibliography, supplemental and suggested readings	<ul style="list-style-type: none"> • All essential handouts for this course are located on my website for downloading: http://www.chicagomediaworks.com. Once on the site, click on the "Instructional Works" icon, then click on "Digital Imaging II" and then navigate to the desired document. • Additionally, the "Digital Take-Home Professor" Quicktime movies and PDF text tutorials on major aspects of Photoshop and Camera Raw can be accessed from the Chicago Media Works homepage, free, 24X7.
Course Fee	\$125

Course description

This course expands the photographer's competence with computer tools that manipulate and enhance photographic images. Emphasis is placed on learning specialized image manipulation and retouching skills using Photoshop and on creating an extended project based on the integration of these new tools supported by critical and theoretical readings and technical research.

Course rationale

This course solidifies the digital imaging knowledge acquired in Digital Imaging 1, and both extends and deepens to coincide with the knowledge and skills required of photographers in the real world.

Prerequisites

Beside a foundation of competency in Photoshop, a working knowledge of the computer productivity software contained in the Foundations of Computer Applications class (required for graduation) is helpful, but not required.

Learning Objectives

The goal of this course is to provide competency-based knowledge that will allow you to seamlessly integrate digital imaging into your photographic practice at a professional level. Specifically, you will learn the following:

Understand basic concepts necessary to navigate our digital imaging culture through theoretical readings.

- √ Readings pertaining to contemporary digital theory.
- √ Research presentation on a digital imaging technique.

Software Applications

- √ Photoshop
- √ Bridge
- √ Adobe Camera Raw Converter
- √ iPhoto
- √ Fetch

Input Devices

- √ Scanner: Imacon

Retouching Tools

- √ Adjustment layers (Threshold, Levels, Curves, Hue & Saturation, Selective Color, Color Balance), Setting black and white points, Neutralizing color casts using Channels with Levels and Curves adjustment layers, Spot Healing Brush, Healing Brush, Patch Tool, Flow, Eraser, Magic Eraser, Background Eraser, History Brush and History Palette options, Blur, Sharpen, Desaturate, Sponge, Dodge, Gradient tool, Eyedropper, Navigation palette, Info Palette, Path Tool, Direct Selection Tool

Blending Modes and their appropriate relationships to each type of adjustment layer

- √ Normal, Multiply, Screen, Overlay, Soft Light (with 50% auto dodge layer), Difference, Hue, Color, Saturation, Luminosity

Color to grayscale conversion methods

- √ Color to grayscale (IMAGE/MODE/Grayscale, IMAGE/ADJUSTMENTS/Desaturate, Channel Mixer, Channel throwaway, IMAGE/MODE/LAB (throw away channels "a" and "b"), Hue & Saturation adjustment layer, Split-channels

Text

- √ Text Tool
- √ Serif and Sans-serif fonts
- √ Decorative and body fonts
- √ Tracking, Leading
- √ Rasterizing

Advanced Digital Output.

- √ Color management (color settings)
- √ Color Settings options
- √ Color Models: LAB, RGB, CMYK

- √ Color Spaces: sRGB, Colormatch, Adobe RGB 1998, ProPhoto RGB
- √ Outsourcing image files to Service Bureaus
- √ Large file transfer via FTP and Fetch
- √ Lambda, Lighjet and Precision prints
- Advanced Digital Input
 - √ Using the Bridge application to navigate to, sort and process imaging files
 - √ Exposing for Camera Raw and processing Camera Raw files using Adobe Camera Raw converter
 - √ Configuring and applying Metadata to files
 - √ Digital naming conventions and batch renaming
 - √ Digital negative format (.dng)
- Sharpening
 - √ Unsharp mask
 - √ Duplicate background layer, then apply Unsharp Mask, then EDIT/FADE UNSHARP MASK (change Blending Mode to “Luminosity”).
 - √ FILTER/OTHER/HIGH PASS (with Hard Light blending mode)
 - √ Edge sharpening
 - √ LAB (sharpen the Luminosity layer)
 - √ Jeff Schewe’s methods for input, interpretive and output sharpening
- Filters
 - √ Sharpen (Unsharp Mask, High Pass, Find Edge, Median)
 - √ Despeckle, Dust and Scratches
 - √ Noise
 - √ Blur (Gaussian)
 - √ Fade Filter
 - √ Smart Filters and Smart Objects
- Make fine digital prints of higher quality than your best analog prints.
 - √ High end scanning for digital prints.
 - √ Black and White and color
 - √ Color Prints: applying color profiles and adjusting the files.
 - √ Compare various types of digital paper printing surfaces
- Digital Image Capture and Processing
 - √ Camera Raw exposure, controls, global settings
 - √ Digital workflow (use of Bridge, custom workspaces, job folders, batch renaming of digital files, metadata, keywords, writing Actions for batch processing, Automate, Image Processor)
 - √ DNG format
- Imaging Harvesting Techniques
 - √ Selections and layer masks
 - √ Merging multiple different exposures
- Develop a Digital Final Project.

Whew! This is a lot.... Therefore, I want to give you some words of warning, based on experience:

Important note: Your success in learning the advanced photographic controls noted above is based upon your having digested every item within the Goals and Objectives of Digital Imaging I (for the particulars, see my DG1 syllabus on my website). If you find yourself ill-prepared for this class, you will know it during our first class session. If so, it is your responsibility to bring yourself up to digital speed. There are resources available to help you: most notably, your textbook from Digital Imaging I and my sequence of Photoshop tutorials, the “Digital Imaging Take-Home Professor” tutorials, accessible 24x7, free, at www.chicagomediaworks.com. You will have *five weeks to bring yourself up to speed*. After that time, we will move forward quickly. If you are not prepared to do so it is quite probable that you will fail this class.

Reading the text, reading the prepared notes that I have made for you, and taking your own notes are *essential*—without them you will *not* pass this course. You must work steadily and participate actively in all discussions. You must be organized, able to work for long periods alone, and enjoy the process of creating images experimentally with time devoted to building and rebuilding them. You will need to devote 6-10 hours per week to work outside class.

PLEASE DO NOT ALLOW YOURSELF TO FALL BEHIND. WE MOVE QUICKLY IN THE FIRST FEW WEEKS AND IT IS *EXTREMELY* DIFFICULT—IF NOT *IMPOSSIBLE*—TO CATCH UP ONCE YOU FALL BEHIND.

Grading policy and evaluation procedures

Credit hours:	3
Grading scale:	<p>Grades are based on the quality of your work, your ability as a professional-in-training to meet each deadline, and your ability to work responsibly and creatively with problems and issues. Grades are awarded as follows (the percentages are an approximation, and I reserve the right to alter them for individual students based on class performance):</p> <p>Assignments: For every assignment you will be asked to describe the technical means and the aesthetic choices integ to the creation of your work. You will be graded at each deadline and, like any professional deadline, if you miss it you may NOT make it up unless you have previously arranged to do so with me. Late assignments without such previous arrangement will <i>not</i> be graded. You may <i>always</i>, however, hand in the late assignment for <i>feedback</i>, only. F for the assignment if you miss it; D, C, B, or A for quality of work if you meet it. The class grade sheet will always be laid out on the seminar table so you will always know your grade-to-date. (50% of grade).</p> <p>Quizzes, Practicums and Exam: There will be quizzes and a final technical exam based on lectures, plus weekly vocabulary, handouts and readings. No quizzes, practicums or the final tech exam may be made up without previous arrangement. Quizzes or examinations may be given later if you arrange it in advance with me. (20% of grade).</p> <p>Final Project: You will be expected to articulate both the technical means and aesthetic choices integral to the creation of your final project. (30% of grade).</p>
Requirements and assignments:	<p>Assignments, quizzes, practicums and final project are listed in the syllabus.</p> <p>You should keep this document as well as your returned assignments, quizzes and examinations because it is your responsibility to know these written policies as well as your performance to date. The grade sheet will always be open and by the teaching computer; you may freely consult your grades-to-date at any time.</p>

Standards and proportions used:	<p>Grading Scale:</p> <p>I An Incomplete Grade (I) can only be issued for an undergraduate student who has met one of the following criteria: The student has successfully completed all course requirements to date but is faced with unexpected circumstances during the final weeks of the semester resulting in the inability to complete course requirements by the end of the semester. The student must have, in the instructor's estimation, the ability to complete missed course requirements outside of class and by the end of the eighth week of the following semester. The instructor must agree to evaluate the student's work and replace the Incomplete grade before the end of the following semester. An agreement specifying work to be completed and a due date must be signed by both instructor and student and approved by the Department Chair. The instructor is responsible for obtaining the final evaluation and submitting a letter grade to replace the Incomplete by the eighth week of the following semester. An agreement specifying the need for the final evaluation from the external supervisor must be signed by both instructor and approved by the Department Chair.</p> <p>F If you are absent from your final presentation(s); incomplete course requirements and four absences.</p> <p>D Below average quality of work and with below average participation.</p> <p>C Work of average quality and with average participation.</p> <p>B Assignments presented on time, regular attendance, good participation, and steady significant efforts throughout. Many students receive this grade.</p> <p>A "B" requirements, along with outstanding participation and work. A small number of students normally receive this grade.</p> <p>(100-95%=A; 94-90%= A- ; 89-86% = B+ ; 85-83%= B ; 82-80%= B – ; 79-76% = C+ ; 75-73%= C ; 72-70%= C – ; 69-60%= D; 59% and below = F)</p>
Return student work	All prints will be returned to you by the last class period. After that time, I cannot retain the prints.

Classroom policies

Academic Integrity:	Students at Columbia College Chicago enjoy significant freedom of artistic expression and are encouraged to stretch their scholarly and artistic boundaries. However, the College prohibits all forms of academic dishonesty. For present purposes, "academic dishonesty" is understood as the appropriation and representation of another's work as one's own, whether such appropriation includes all or part of the other's work or whether it comprises all or part of what is represented as one's own work (plagiarism). Appropriate citation avoids this form of dishonesty. In addition, "academic dishonesty" includes cheating in any form, the falsification of academic documents or the falsification of works or references for the use in class or other academic circumstances. When such dishonesty is discovered, the consequences to the
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	student can be severe. Courtesy must be observed at all times in my classroom. Please read the academic policies of this college. I will follow those policies in any instance of academic dishonesty.
Attendance policy:	My attendance policy is that the fourth absence results in an automatic “F” in the course. I do not remind students of the number of absences accrued. Absences are marked with an “X” on the grade sheet. The grade sheet is open for view and you may refer to it at any time. Even if you accrue four absences and earn a failing grade you are most welcome to keep attending, working and learning. I would encourage you to do so.
Absences:	<p>We move quickly in this course. It is my experience that if a student misses a single class within the first ten weeks, it is difficult to catch up. Two missed classes are extremely difficult, if not impossible, to overcome. Because of this, there are no excused absences with the exceptions of jury duty, jail or military duty.</p> <p>Please plan ahead for an unplanned absence by obtaining the email and telephone number of a fellow student in order to contact them for notes and work due if you are forced to be absent—especially since this syllabus will be changing from week to week in response to your needs and learning pace (see Syllabus, below).</p>
Tardiness:	Tardiness is unacceptable because it disrupts learning. Arriving late and departing early (more than 15 minutes) counts as half an absence. Students are expected to stay for the entire class period and to participate in class discussions and critiques.
Late work and makeup assignments:	<p>You will be graded at each deadline--and, like any professional deadline, if you miss it you MAY NOT make it up unless you have previously arranged it with me. Late assignments without previous arrangement will <i>not</i> be graded. You may always, however, hand in a late assignment <i>for feedback, only</i>.</p> <p>F for the assignment if you miss it; D, C, B, or A for quality of work if you meet it.</p>

Conaway Center Statement

“Students with disabilities are requested to present their Columbia accommodation letters to their instructor at the beginning of the semester so that accommodations can be arranged in a timely manner by the College, the department or the faculty member, as appropriate. Students with disabilities who do not have accommodation letters should visit the office of Services for Students with Disabilities in room 520 of the Congress building (312.344.8134/V or 312.360.0767/TTY). It is incumbent upon the student to know their responsibilities in this regard.”

Writing Center

You are invited to visit Columbia College's Writing Center. You may drop in or have a standing weekly appointment. Writing consultants can help you develop a paper idea, organize a paper, revise a paper, or understand your reading.

Course calendar

Please note that individual class sessions are subject to change in response to your needs. I will make every effort to keep you informed of changes in the schedule. Some items may change at my discretion, but the overall workload will not change.

Week 1 [September 4]

Digital Knowledge Questionnaire and Competency Test File(s)

Introduction

Class website, Peter's email, competency-based course, texts, readings, assignments, Tech Expert presentation, final project, your responsibility to know each of the Digital imaging I goals and objectives, five-week review window.

Lecture: Digital Imaging Workflow

Demos:

Setting your Photoshop Color Settings Presets, creating project files, naming conventions, saving layered files, saving a copy, flattening and converting to appropriate file formats, dropping items into the class "drop box", burning CD's, copying class materials, backing up files and optimizing your home hard drive, multi-site archiving, Web gallery, copying "Digital Take-Home Professor" tutorials to CD-R. Digital workflow steps, correcting perspective and tilts, using Transform tools, Adjusting perspective (Workflow step #4), setting black and white points, neutral gray point, adjusting layer masks, levels, curves.

Download:

Syllabus, <http://www.chicagomediaworks.com/2instructworks/3digital2/digitalimaging2/>

Peter Thompson, "Digital Imaging Workflow" (from Course Documents: digital_workflow_2008.pdf)

Peter Thompson, "Color Settings" (from Course Documents: 3_color_settings.pdf), pages 1-5.

Peter Thompson, "Digital Imaging Terms" (from Course Documents:

digital_imagterms_categories_2008.pdf *and* digital_imagterms_alpha_2008.pdf)

Peter Thompson, "Final Project Proposal"

<http://www.chicagomediaworks.com/2instructworks/3digital2/digitalimaging2finalproj.html>

To do:

1. Download and read the handouts, above. (To burn a copy of any material from the class partition or from the tutorials folder, **first** drag its folder to the Desktop, **then** open the Roxio Toast icon and drag the material you wish to copy into that application and follow the normal process to burn a CD-R).
2. Calibrate your home monitor, and set your home Photoshop Color Settings Presets according to the two respective guidelines, above.
3. In the Willmore text, review chapter 16 first, then begin to read chapters 1 – 7, and 9-15 *over the next five weeks*.
4. Read and play the "Digital Take-Home Professor" tutorials on your CD-R or the website that correspond to the techniques that you need to review. Play the Quicktime tutorials as many times as you need in order to learn at home.
5. Fill out and sign the "Statement of Understanding" on the last page of this syllabus and bring to Week Two.
6. Begin to think about what you would love to do for a final project. Draft decision due on Week 6.
7. Prepare a Photoshop Web Gallery of your Digital Imaging 1 final project or best work. Label the Web gallery folder as follows: "DG1final_ yourlastname" and drop it into the "Dropbox (Drop_PM)". Due Week Two.
8. Choose at least one of your best digital images with all layers intact. Make a copy. **Res the copy down to 72ppi. (Notes: I will not accept files at higher resolution past Week Two; never place a file larger than 5 megs into the Drop Box; and**

only place PSD or TIFF files; files larger than 5 megs will not be accepted past Week Two). Label it as follows: "(yourlastname)_layers.psd" and place it in the class Dropbox. (Note: To drop any file into the class Dropbox, **first** copy it from your CD by dragging it to the Desktop, **then** drop it into the Dropbox).

Week 2 [September 11]

DUE: Statement of Understanding, Web Gallery of Digital Imaging I final project,

Review

In class:

Review Questionnaire and quiz results. Web galleries and Practicum prints and files
Digital workflow (see Willmore text, page 558)
Solving your digital imaging problems: calibrating monitors via System and Gretag MacBeth EyeOne, Advanced tonal corrections for color images: levels options, threshold adjustment layer, levels adjustment layer, curves adjustment layer, setting black point and white point and neutral gray in levels, making selections on separate layers, layer sets, using levels and curves on individual selections, painting on adjustment layer masks, auto-dodging techniques for dodging and burning, normal, low key and high key images, next week's project guidelines.

To do:

1. Read chapters 2,5,7 from Willmore text.
2. Read and play the tutorials that correspond to the techniques that you need to review.
3. Shoot and bring three well-exposed, focussed color transparencies to Week Three to scan in class. One must be **normal** key, one **low** key, one **high** key. Bracket in half-stops.
4. Download Practicum #1 files, and follow the instructions. **Res down to 72ppi (Note: Files at higher resolution or larger than 5 megs will NOT be accepted past Week Two)**. Place files with all layers intact in a folder. Label the folder "(yourlastname)_DG2Practicum1" and drop it into the appropriate Digital Imaging 2 "Dropbox." (identified as "Drop_AM", or "Drop_PM"). Due Week Three.
5. Calibrate your own studio monitor over the next three weeks by checking out the take-home calibration kits in the Digital Imaging Lab,

Week 3 [September 18]

DUE: Practicum #1, three color transparencies

Review and/or quiz

In class:

- Scan one color chrome with IMACON scanner
- Res-ing down scans
- Imacon tutorials

Demos:

- Advanced digital workflow methods: adjusting resolution, spotting, input sharpening, luminosity, color and saturation blending modes, curves adjustment layers.

Handouts:

- Jeff Schewe, sharpening_schewe.pdf

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms.
2. Download and play the Imacon Scanner tutorials located in the "Tutorial" section of the server. Play the individual Imacon Quicktime movie tutorials at home in order to learn the Imacon functions. We will work on the Imacon scanner Weeks Three and Four.
2. Scan three **color** chromes using the Imacon scanners in the Advanced Scanning room. One image must be **normal** key, one **low** key, one **high** key.

3. Create project folders for each one, then apply the tonal corrections and retouching techniques learned thus far and following the digital workflow. When finished, make a copy of each file *with layers intact and resize to 72 ppi*. Place them inside a folder labeled "yourlastname_week4" and place the folder inside the class Drop Box. **NOTE: never place a file larger than 5 megs into the Drop Box, and only place PSD files. Files larger than 5 megs will not be accepted. Always copy your file(s) from CD to the Desktop, and then drag them from there to the Drop Box.** Due Week Five.
4. (Reminder: Final Project proposal draft due Week 8).

Week 4 [September 25]

In class: we review everything you have been taught so far.

Week 5 [October 2]

Review

DUE: Imacon scans of three color chromes using advanced tonal corrections and retouching techniques.

Review and/or quiz

In class:

- Review scans

Demos:

- Advanced retouching techniques, continued: adjusting global and local parts of images with appropriate adjustment layers and appropriate color blending modes, interpretive and output sharpening techniques.
- Test strips and printing workflow

To do:

- 1, Read and play the tutorials that correspond to the techniques, above.
2. Download the printing_instructions.pdf file. Read pages 1,2.
3. Make three (3) RGB color prints, at least 13"X19" each, from your color scans files, one using the **normal** contrast file, one using the **low** key file, one using the **high** key file. Try to make the absolutely best quality prints possible. Incorporate local adjustments into the workflow. Due Week Six. When finished, make a copy of each file *with layers intact and resize to 72 ppi*. Place them inside a folder labeled "yourlastname_week6" and place the folder inside the class Drop Box.
5. (Final Project proposal draft due Week 8).

Week 6 [October 9]

DUE: Three color prints

In class:

- Local adjustments, continued.
- Review RGB prints under controlled viewing conditions

Demos:

- Advanced retouching techniques, continued: adjusting global and local parts of images with appropriate adjustment layers and appropriate color blending modes, interpretive and output sharpening techniques.
- Soft proofing, viewing lights and viewing light compensation, screenshots of printing decisions, test strips, printing workflow.

To do:

1. Read and play the tutorials that correspond to the techniques, above.
2. Download the printing_instructions.pdf file. Read pages 1,2.
3. Download the grayscale_testfile_rgb.tif
4. Print out the grayscale gradient on both luster and matter paper. Bring to class Week Seven.
3. Redo (and/or reshoot) your three (3) color prints, at least 13”X19” each, from your color scans files, one using the **normal** contrast file, one using the **low** key file, one using the **high** key file. Try to make the absolutely best quality prints possible. Apply local adjustments and softproofing. Take screenshots of every decision you make when printing. Import screenshots into Photoshop and drop them into a new folder in the layers palette for each of your three files. Label the folder “Print”. When finished, make a copy of each file *with layers intact and resize to 72 ppi*. Place them inside a folder labeled “yourlastname_week7” and place the folder inside the class Drop Box. Due Week Seven.
6. (Final Project proposal draft due Week 7).

Week 7 [October 16]

DUE: Three color prints and two grayscale gradient test prints

In class:

- Go over image files from previous week
- Assess color prints and image files

Demos:

- Advanced retouching techniques, continued.
- Evaluating test prints (color cast? 5% intervals? 1% intervals?). Addressing luminosity, hue, and saturation printing adjustments (in that order). Rendering intents (saturation, perceptual, relative and absolute colorimetric), gamuts, bracket proofing with posterized gradient, viewing light compensation with curves preset, printing screenshots, annotations, BAT master file.
- Color to grayscale conversion methods: (IMAGE/MODE/Grayscale, IMAGE/ADJUSTMENTS/Desaturate, Channel Mixer, IMAGE/MODE/LAB (throw away channels “a” and “b”), using Channel Mixer and Hue & Saturation adjustment layers together, Black and White adjustment layer, colorizing b/w images, actions.

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms.
2. Type, spell-check first draft of your Final Project Proposal in Word format and “export” it as a PDF document by hitting the “Print” button and then choosing “Save as PDF”. Label your exported PDF document as follows: “finaldraft1_ yourlastname.pdf” and drop it into the class Drop Box. Due Week Eight.
3. Convert your “normal” color neg or chrome to grayscale using your preferred conversion method, and print it in the following two ways: 1) printed as a desaturated RGB, and 2) converted to grayscale using the advanced print settings on the 4800 printer. (You might wish to do several variations of the latter in order to know how the different tonal print options work on your print). . When finished, make a copy of each file *with layers intact and resize to 72 ppi*. Place them inside a folder labeled “yourlastname_week8” and place the folder inside the class Drop Box.
4. Prepare for Midterm on Week 9.

Week 8 [October 23]

DUE: Two grayscale prints, one typed, spell-checked one-paragraph Final Project draft exported as a PDF document .

Review and/or quiz

In class:

Grayscale prints
Thinking "Big" Prints: effect of scale on contrast
Discuss Final Projects

Demos:

- Contemporary photo-graphic design
- Advanced retouching techniques, cont'd. Increasing canvas size.
- Making multiple-toned prints: duotone, tritone, quadtone, gradient map.

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms.
2. Print one of your color negs or chromes as a grayscale image using one of the conversion methods above, and print one of your color negs or chromes as a duotone or tritone or a gradient mapped print. Due Week Six.
3. Make one color mural print on any theme or topic that you would like using the Epson 9600 printer. You may use your scanned color negatives or transparencies, or work from other sources. Include a small step wedge in the margin of the print by increasing your canvas size. Resolution: 180 ppi is fine. **Minimum size: 24"x30"** (maximum size: 44" X [100 feet max]). Take your finished file on a CD to the Cage. Fill out the appropriate print order form that you will find there. They will then print your work and give you the opportunity to OK a test print. This process takes approximately 24 hours. Bring the finished mural print to **Week Ten**.
4. Review all techniques for the Midterm practicum.

Week 9 [October 30]

Midterm practicum

In class:

Discuss Final Projects

Demos:

- Advanced retouching techniques (curves), continued.
- Contemporary Photo-graphic design, cont'd.

Handout:

- "Making Screenshots," in PDF TUTORIALS on Server.
- Peter Thompson, "Final Project Proposal"
<http://www.chicagomediaworks.com/2instructworks/3digital2/digitalimaging2finalproj.html>

To do:

1. Read and play the tutorials on the Server that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms..
2. Read chapters 2 & 6 in the text.

Week 10 [October 23]

DUE: Mural print (minimum size: 24"x30")

View digital prints at Museum of Contemporary Photography

In class:

Quiz on Sharpening

View Mural prints in 10th floor viewing area
Discuss Final Projects

Demos:

- Selections and extractions
- Review Schewe sharpening method and practice image harvesting skills on practice files.
- Image Harvesting, part 1: Extending the tonal and color range of the photographic print through merging more than one *scan* of the same negative or transparency

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms.
2. Make typed, spell-checked Final Project Proposal. Export it as a PDF document. PDF document due Week 10.
3. Prepare for midterm on Week Ten.
7. Image Harvest project #1: Shoot three or more shots of the same scene using color neg or chromes or digital exposures. If the latter, you must shoot using the Camera Raw format and have read my CAMERA RAW MINI-MANUAL. Combine one or more element from one into the other. Sharpen. **Now make a print of at least 11”X17”**. When finished, make a copy file *with layers intact and resize to 72 ppi*. Label it as “yourlastname_week9” and place it inside the class Drop Box. Both due Week Nine.
8. Read chapter 14 (Advanced masking) in the text.
9. Bring in your own work for final project to work on in class with Peter’s help.

Week 9 [October 30]

DUE: Image Harvest Project #1

In Class:

Image Harvest files and prints
Discuss and work on Final Projects

Demos

Review Imaging Harvesting techniques, part. 1.
Image Harvesting, part 2: Extending the tonal and color range of the photographic print through merging more than one *exposure* of the same scene, and applying luminosity masks and IMAGE/ADJUST/Shadow/Highlight to bring detail into highlights and shadows.

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms..
2. For those with digital cameras: read and play the “CameraRawCS3.pdf”.
3. Make typed, spell-checked Final Project Proposal. Export it as a PDF document. Label the file “yourLASTname_Final_week10.psd” and place folder inside the class Drop Box. Due Week 10.
4. Image Harvest project #2: From your color neg or chrome or digial capture using the Camera Raw format,, combine one or more element from one into the other. **Now make a print of at least 11”X17”**. When finished, make a copy file *with layers intact and resize to 72 ppi*. Label it as “yourlastname_week10” and place it inside the class Drop Box. Due Week Ten.
10. Prepare for midterm next week.
11. Copy the Camera Raw files. Bring them into Bridge and process them.
12. Read chapters 9, 10, 15 in the text.

Week 10 [November 6]

Due: PDF of final project proposal, Image Harvest Project #2

In Class:

Image Harvest files
Technical Experts Presentation, and review
Discuss Final Projects

Demo:

• Image Harvesting, part 3: Camera RAW exposure and controls, ProPhoto color space, global settings, DNG format, Digital Workflow (use of Bridge, custom workspaces, job folders, batch renaming of digital files, metadata, keywords, writing actions for batch processing)

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms..
2. (If you are assigned a Practicum: copy the Practicum files and do the image practicum at your home studio. Due Week Eleven.)
3. For those of you **with** digital cameras capable of capturing images in the RAW format: shoot at least ten different shots. Create job folders. Rank the files within Bridge. Create your own metadata and keywords, then assign them and batch rename the files according to your preferred naming convention. Process the files using the ProPhoto color space and the camera RAW settings within Bridge. When finished, make a folder and place your files within it. Burn it to a CD-R. Due Week Eleven.
4. For those of you **without** digital cameras, open the "Advanced" folder and scroll down to the "Raw Files and Work Folders". Burn a copy of the folder of RAW files labeled "060111_knemore_b_.DCIM". Create job folders. Rank the files within Bridge. Create your own metadata and keywords, then assign them and batch rename the files according to your preferred naming convention. Process the files using the ProPhoto color space and the camera RAW settings within Bridge. When finished, make a folder and place your files within it. Burn it to a CD-R. Due Week Eleven.

Week 11 [November 13]

DUE: Processed Camera RAW files

In Class:

Technical Experts Presentation, and review
Image Harvest files
Work on Final Projects
Group meeting: solutions to technical problems in final projects

Demo:

• Image Harvesting, part 4: High Dynamic Range Images (merging images of different exposures to create an HDR image, methods for adjusting HDR image brightness and contrast, converting from 32-bits to 16- and 8-bits per channel)

To do:

1. Read and play the tutorials that correspond to the techniques, above, and read the corresponding vocabulary in the Digital Imaging Terms..
2. Using a tripod and shooting either in camera RAW or in analog, shoot a single scene with an enormous dynamic range. Take from five to seven separate shots, bracketing each by two exposure stops separating each shot. If shooting in analog, scan your exposures. All: using Bridge, assign your metadata and keywords to the files, then batch rename them according to your preferred naming convention. Create a High Dynamic Range image utilizing all your exposures. When finished, make a folder and place your files within it. Burn it to a CD-R. Due Week Twelve.

3. Prepare to **show** an update on your final project. Due Week Twelve.

Week 12 [November 20]

DUE: HDR image, final project update

Visiting artist: TBA

In Class:

- Technical Experts Presentation, and review
- Image Harvest files
- Update on Final Projects
- Work on Final Projects
- Group meeting: solutions to technical problems in final projects

Handout: Final Project guidelines PDF

Week 13 [December 4]

In Class:

- Technical Experts Presentation, and review
- Image Harvest files
- Update on Final Projects
- Work on Final Projects
- Group meeting: solutions to technical problems in final projects

Demo: iMovie

Week 14 [December 11]

FINAL TECH EXAM

In Class:

- Technical Experts Presentation
- Image Harvest files
- Work on Final Projects
- Group meeting: solutions to technical problems in final projects

Due next week: final project prints, CD of final print files with layers intact, final project description, and web gallery

Week 15 [December 18]

DUE: FINAL PROJECT PRINTS, CD OF FINAL PRINT FILES WITH LAYERS INTACT, FINAL PROJECT DESCRIPTION, WEB GALLERY

Critique and celebration

HIGHLY RECOMMENDED BOOKS ON DIGITAL IMAGING:

- Katrin Eismann, PHOTOSHOP RESTORATION AND RETOUCHING: THIRD EDITION, New Riders Press, 2005, 450 pages. ISBN: 0321316274. \$34.99. Available at many bookstores and through Amazon.com. (Terrific job dealing with practical, real-world retouching challenges.)
- John Paul Caponigro, ABOBE PHOTOSHOP MASTER CLASS, SECOND EDITION.

DIGITAL SUPPLY SOURCES:

Helix, 310 S. Racine (slide duping, processing, and digital prints), 312.421.6000. Calumet, (photo supplies, equipment), 312.440.4920. Central Camera, 230 S. Wabash (used equipment, photo supplies – has student discount), 312.427.5580. Gamma, 314 W. Superior (color and digital prints), 312.337.0020. Image Studio Ltd., 223 W. Erie St, Suite 6NE (outputting large scale B&W film negatives from digital files, drum scanning and color printing), 312.944.2600. Best Buy, 1000 W. North Ave (zip disks, VHS tapes, etc.), 312.988.4067. Micro Center, 2645 Elston Ave (computer supplies, zip disks, recordable CD's, etc.), 773.292.1700. MacMall, 1.800.222.6227. Mac Warehouse, 1.800.255.6227. Paper Source, 232 W. Chicago Ave (alternative papers for inkjet printing), 312.337.0798. IT Supplies, (800 238-6050, www.itsupplies.com) (outlet for Epson digital papers. Give student discounts). New York Central Art Supply, (largest stock of fine art papers), 1.800.950.6111. Pearl, 225 W. Chicago (paper and general art supplies), 312.915.020. Utrecht, second floor, Champlain Building (zip disks, watercolor paper, etc.), 312.629.6506. Pricewatch: www.pricewatch.com, and Epinions: www.epinions.com to find the best prices on computer supplies, digital cameras, etc. David Adamson Editions (Washington, DC), Fine Arts Iris prints, 1.202.347.0090 – ask about student discount. A good site for printing resources on the web: photoweb.colum.edu/tshirley/syllabus/printingresources.

STUDENT'S UNDERSTANDING

I have read the syllabus for the Digital Imaging II class and understand the Attendance and Grading policies, what will be expected of me during the course, and that the sequence and content of individual class sections are subject to change. My digital class materials and the backup of my materials are my sole responsibility. Neither Columbia College Chicago nor any of its agents or employees assume responsibility or guarantee or warranty the storage devices utilized throughout the course of the class. Media storage of digital elements will not be provided after the end of the semester. (Please sign, date, remove from the syllabus, and return to Peter at the Week Two class session).

Your name printed: _____

Your signature _____

Date: _____