

Instructor:
Office Hours:
Office Rm. #
Email:
Title, Course #, section #
Class Hours, Room:
Course Prerequisite:

Andrew J. Ortiz
M-W 12-1 or by appt.
FA Bldg., Rm. 342
ortiz@uta.edu
Digital Imaging, ART 3352, section 001
M-TH, 8-11:50 am, FA Bldg. Rm 404
ART 2304

Course Content:

The main objective in this course is to prepare the student to use digital imaging techniques to effectively communicate ideas. Emphasis is on the use of the computer as a tool for personal expression.

Student Learning Outcomes:

1. The student will be able to identify and explain basic computer terminology.
2. The student will be able to use digital imaging tools used in the software Adobe Photoshop CS2.
3. The student will be able to conduct online research using the Internet.
4. The student will be able to make high-resolution scans of 2 and 3 dimensional objects through digital imaging.
5. The student will develop concepts and strategies for expressing their ideas through digital imaging.
6. The student will be able to express their ideas in oral form through critiques and presentations.
7. The student will be able to utilize appropriate artistic strategies such as the use of color, texture and figure-ground balance in the creation of images.
8. The student will be able to print out portfolio quality images using ink jet printers.

Individual Project Assignments:

Scanner as a Camera: To produce a scan-o-gram, objects are composed on the flatbed scanner glass. Things are added or removed and then quick pre-scans are performed. Based on what is seen in the software preview window, the composition can be altered or adjusted—just as one might do based on looking at the ground glass from a large-format camera.

Blending: An exercise on the blending of layers

Integration: The students will combine text/symbols with both photographic and drawn imagery to illustrate integration of elements in a composition.

Portrait and Object: Digitally combine a photograph of yourself and several objects to create a hybridized portrait. Objects may be downloaded, photographed or scanned. The hybridized portrait should reflect how you see yourself.

Common Language: Students will explore making images use text in combination/juxtaposition with manipulated photographs. Students will investigate the how an image may be dominant or act as a compliment to the image.

Major critique and examination due dates:

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|----------------------------|---------------------|
| <i>Glossary Exam</i> | <i>Due: June 8</i> |
| <i>Scanner as Camera</i> | <i>Due: June 13</i> |
| <i>Blending</i> | <i>Due: June 14</i> |
| <i>Integration</i> | <i>Due: June 20</i> |
| <i>Portrait and Object</i> | <i>Due: June 27</i> |
| <i>Common Language</i> | <i>Due: July 7</i> |

- June 6 Introduction, Glossary Exam, redrivercatalog.com, Making Textures, Word Processing/ Internet Research/Spreadsheet. (email, browsers, attachments) Continue Internet/Spreadsheet assignment, Lecture: *The Language of Vision*
- June 7 Scanning Demo, Constrain Proportions, bi-cubic, resample image, transparency, color background and, scan textures using color range and magic wand, file formats: tif., jpg., png., psd.

Assignment: Scanner as a Camera
- June 8 Glossary Exam.
Photoshop Tool Box:
Using Adobe Bridge as a default, Using move, magic wand, Lasso, polygonal lasso, rectangular marquee, elliptical marquee, crop, paint brush, quick masks and edit mode, pencil, clone, spot healing brush, regular and spot healing brush, patch tool, select, reselect, inverse, load and save a selection, auto select, delete layers, side.
Repeat Exercises
- June 9 Blending Exercise. Edit Menu, Undo, Step Backward, Cut, Copy, Paste, Paste Into, Clear, Fill, Stroke, Free Transform/Transform: Scale, Rotate, Skew, Distort, Blur Filter, Perspective, Warp, Flip/Horizontal, Vertical.
Repeat Exercises
- June 13 Supervised Lab, Scanning Textures, Image Menu: Mode, Duplicate, Image Size, Canvas size, Rotate Canvas, Crop, Adjustments: Match Color, De-saturate, Replace Color
Repeat Exercises

Red eye, eraser, paint bucket, blur filter, sponge, sharpen, and smudge, line, eyedropper, hand and zoom tools, navigator and burn and dodge tools, merge, down, merge layers, flatten image, link and unlink layers.
Repeat Exercises
- June 14 Complete Blending exercise: Printing Demo
Image Menu: Mode; Grayscale, Indexed Color, RGB, CMYK, Lab color, Multi-channel, 8 bit, and 16 bit channels, New Adjustment Layer and Adjustments, Auto levels, Auto Contrast, Auto Color, Histograms, Converting between color modes, Guides, Ruler, and snap tools.
Repeat Exercises
Levels, Curves, Color Balance, Brightness/Contrast, Hue/Sat, De-saturate, Match Color, Replace color, Selective Color, Gradient with gradient modes, Gradient Map, Invert

Assignment: Integration
- June 15 Review: New Layer Adjustments, Levels, Color Balance, Curve Hue/Sat. Brightness/Contrast, Creating work paths from text, Adding type to the image in edit Mode, Quick Masks and Edit Mode, In house Photoshop Filters, Cloning tool, Healing brush tool, Eraser and the Burn tool. Type tool, Styling and Warping text, Drop Shadow, Bevel and Emboss, Airbrush tool, Knock out gradient Layer, simplified version of knock out layer to show practical purpose
- June 16 Supervised Lab
Creating channels, Channel Mixer, Sharpening Images, Un-sharp Mask Filter,

June 20 **Critique: Integration.**

Creating grayscale images, grayscale compared to de-saturation, Using grayscale to adjust image, replacing color in an image, replacing color on a black image, blending layers using grayscale, Subtracting Shapes, Deselecting paths, Drawing paths, combining paths into a filled shape

Assignment: Portrait and Object

Midterm Evaluations

June 21 Supervised Lab

June 22 Supervised Lab

June 23 Actual pixels, Fit screen, Print size, Cropping to reduce image size, Photo Filter, Selective (adjustments) Layer cut and copy, Fill layer: solid, gradient, pattern, smart object. Demo on manipulation of letters/ words using, handwritten, scanning templates, newspapers, filters and textures specifically for text, smudges, opacity, blur/ movement, eraser, adding textures to non-rasterized photographs.

June 27 **Critique: Portrait and Object**
Duplicating a clipping layer, Vectors and paths, pattern tool, Creating channels, Channel Mixer, Applying effects using a gradient mask, Retouching on a separate layer, Applying layer styles. **Repeat Exercises**

Assignment: Common Language

June 28 Supervised Lab and Lecture: Improving shadow and highlight detail, Camera files in Photoshop, Processing and opening camera Raw files in Photoshop, Making Tonal Adjustments in Camera Raw

June 29 Supervised Lab

June 30 Demonstration on cutting Mats, Creating Grayscale images from Color photographs, Resume, Artist statement

July 4 HOLIDAY

July 5 Supervised Lab

July 6 Supervised Lab

July 7 Last Day of Class/ **Critique: Common Language**

Grading Policy

Percentages used for final grades are as follows: 10% attendance and participation, 5% computer vocabulary exam, 5% blending exercise, 80% projects (20% each)

Individual project grades are based on both content and technical aspects of the work. Projects that are turned in late will be lowered one letter grade for each class day the assignment is late.

Add/Drop Policy

During the late registration period, a student may withdraw from all courses for the current semester using either the online MYMav student self-service web pages or by contacting their major academic department. Students are responsible for following the university regulations concerning adds and drops. (See undergraduate catalog for details.)

Grade Exclusion Policy

As of the first day of classes Fall 2006 and after, new students and continuing students who have not yet attempted a grade replacement for one or more courses at UTA are eligible to utilize the grade exclusion policy. (See undergraduate catalog for details)

Grade Grievance Policy

I will do whatever I can to help you learn the material, gain the skills and understand the assignments in this class. It is your responsibility to keep me informed regarding your progress with the material so that I can help you before assignments are due. If you have any question or concerns regarding course content address the issue with me first. If an understanding cannot be reached between the professor and student it will then be immediately brought to the attention of the administration.

Americans with Disabilities Act

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112- The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act- (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

The University provides "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designed administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at www.uta.edu/disability. Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at 817-272-3364.

Academic Integrity:

It is the philosophy of the University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, Taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Series 50101, Section 3.22)

Student Support Services Available

The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

Librarian to Contact:

Beverly Carver, Fine Arts and Architecture Librarian

E-Culture Policy:

The University of Texas at Arlington has adopted the university email address as an official means of communication with students. Through the use of email, UT-Arlington is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning registration, financial aid, payment of bills, and graduation may be sent to students through email.

All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. Students are responsible for checking their email regularly.

Make-up Exam/Projects Policy

See instructor to reschedule missed exams and projects.

Attendance Policy

Attendance in class is mandatory. Should an illness keep you from attending class please notify the Art Office or me. I am sure we can find a way to make up the work and keep you up to date.

Student Responsibilities/Behavior

Students are responsible for reading assigned texts; case studies and computer assisted instructional materials and review other materials as necessary to support comprehension and understanding of course content. Students are responsible for participating in the classroom discussions and are responsible for information presented in class, including lecture notes, announcements, etc. Students absent from class have the responsibility to obtain missed information from another classmate.

During class the audio mode of beepers and cell phones must be turned off. Ringing of cellular phone and/or cellular phone conversation during call will not be tolerated.

No children may be brought to class, exams, critiques. Do not leave children unattended in the building. Unauthorized visit of family members or loved ones (boyfriend, girlfriend, etc.) is not prohibited.

Supplies/Paper/Online

Red River Paper

8400 Directors Row

Dallas TX 75247

www.redrivercatalog.com or Order by phone: 888-248-8774

OR Digital Art supplies, San Diego, CA, www.digitalartsupplies.com

Glossary:

Anti-alias - The blending of pixel colors along the perimeters of hard-edged shapes, such as type, to smooth undesirable stair-stepped edges, or "jaggies."

Binary- In Photoshop, a method for encoding data. Binary encoding is more compact than ASCII encoding.

Bitmap -The display of a picture on a computer screen via the geometric mapping of a single layer of pixels on a rectangular grid. In Photoshop, Bitmap is also a one-channel mode consisting of black and white pixels.

Bit -(Binary digit) The smallest unit of information on a computer. Eight bits equal one byte.

Byte -The basic unit of storage memory. One byte is equal to eight bits.

Kilobyte - (K, Kb) A unit of memory equal to 1,024 bytes.

Megabyte - (M, MB) A unit of memory equal to 1, 024 kilobytes.

Gigabyte -(G, Gb) A unit of memory equal to 1, 024 megabytes.

Canvas Size - The size of a picture, including a border, if any, around the image.

CD-ROM - A special digital drive for reading CD- ROM disks. Most CD-ROM drives are read only.

RGB - Color produced by transmitted light. When pure Red, Green, and Blue Light (additive primaries) are combined, as on a computer monitor white is produced. In Photoshop, RGB Color is a three-channel picture mode.

CMYK - (Cyan, Magenta, Yellow, and Black) The four colors of ink used in process printing. They are subtractive primaries.

Contrast - The degree of difference between lights and darks in a picture. A high contrast picture is comprised of only the lightest and darkest pixels.

DPI - (Dots Per Inch) A unit used to measure the resolution of a printer.

Fill - To fill a selection with shade, color, pattern or blend.

Selection - An area of a picture that is isolated so it can be modified while rest of the picture is protected. A moving marquee denotes the boundary of a selection of its contents. A selection can contain underlying pixels or temporarily float above underlying pixels.

Floating Selection - An area of a picture that is surrounded by a marquee and can be moved or modified without affecting underlying pixels. The Paste and Float commands create floating selections. Newly created type also appears as a floating selection.

Marquee - (Also known as marching ants) The border that defines a selection.

Inverse - To switch the selected and non-selected areas of a picture.

Invert- To reverse an image's light and dark values

Grayscale - A picture containing black, white, and up to 256 shades of gray, but no color. In Photoshop, Grayscale is a one-channel mode.

Foreground color - The color applied when a painting tool is used, type is created, or a Fill command is executed.

Hue - The wavelength of light of a pure color that gives a color its name, such as red or blue, independent of its saturation or brightness.

Mode - A method for specifying how color information is to be interpreted. A picture can be converted to a different mode using the Mode menu: a mode can be chosen for painting or editing tool via pop-menus. (e.g. Grayscale, RGB)

Opacity - The density of a color or shade, ranging from transparent to opaque. In photo shop, the opacity for a painting or editing tool is specified by using the Brushes palette.

Pixel - (Picture elements) The individual dots used to display a picture on a computer screen.

RAM - (Random Access Memory) The system memory of a computer used for running an application, processing information, and temporary storage.

Scan - To digitize a slide, photograph or other artwork using a scanner and scanning software so it can be displayed, edited, and output from a computer.

Resolution - The fineness of detail of a digitized image (measured in pixels per inch-usually 72 ppi), a printer (measured in dots per inch), or a halftone screen (measured in lines per inch).

TIFF - (Tagged Image File Format) A file format used for saving bitmapped images, such as scans. TIFF pictures can be color separated.

Adjustment Layer: Is used to try out tonal and color adjustments, and then merge the adjustment layer downward to apply the effect.

Vector: Mathematically defined editable type and shapes

Quick mask Mode: A mode that will convert the protected areas a cutout, and then mode the mask cutout using a painting tool.

Rasterize: Type changed from vector based to pixel based. Once type is rasterized its typographic attributes can't be changed.

Key Commands

| | | |
|------------------|---------|---------------------------|
| Delete selection | Apple d | (all keys are lower case) |
| Cut | Apple x | |
| Copy | Apple c | |
| Paste | Apple v | |
| Open | Apple o | |
| Merge layers | Apple e | |
| Healing Tool | j | |
| Clone Tool | s | |
| Eraser Tool | e | |
| Hand | h | |
| Save | Apple s | |
| Undo Selection | Apple z | |
| Free Transform | Apple t | |
| Zoom in | Apple + | |
| Zoom out | Apple - | |
| Print | Apple p | |