

Course Syllabus

Course Information

ATEC 2382.005 Computer Imaging
Fall 2015

Fridays 10:00am-12:45pm

Instructor Contact Information

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Course Description

The nature of this course is to integrate technical ability with visual communication as they relate to digital art and design. Computer images are prepared for multiple delivery environments, including internet, games, and animation. Students will apply the techniques of digital imaging using tools in Adobe Photoshop software, in concert with foundational knowledge of the elements and principles of art and design. Students will be encouraged to use divergent thinking in problem solving as a way to address emerging media.

This is a major requirement course for students pursuing an ATEC/EMAC undergraduate degree. The course is a full session, meeting once a week for 2:45 hours per week in a computer lab environment. Additional time outside of class is required to complete assignments. Course delivery is blended online, lecture, and lab environment.

Student Learning Objectives/Outcomes

- * Students will design and create personal expression through visual composition that successfully demonstrates the use of design theory and digital media tools.
- * Students will communicate knowledge of elements & principles of art through at least one digital art medium related to their degree focus.
- * Student will participate in critique activities through group discussions of observable work created in current imaging software as well as written critical analysis.
- * Students will analyze, assess, and derive meaning from works of art, including their own, according to the elements of art, the principles of design, and aesthetic qualities.

Course Requisites

Students should have moderate computer navigation skills plus basic knowledge of online social etiquette and work ethic. Complete the assignments and turn them in on time - no deadline extensions. Activities require regular access to a computer with internet capability and Adobe Photoshop Extended CC installed. Students will need a NetID to access lab computers and eLearning, plus a UTD ID number to access additional instructional materials through UTD Library.

Required Textbooks and Materials

- * Adobe Photoshop CC Classroom in a Book by Adobe Creative Systems
Online e-books through the McDermott Library.
Students require an active UTD ID in order to access this reference.
- * Computer access to eLearning for online classroom content.
- * Personal storage device (approx 4GB flash drive for transport to/from ATEC labs).
- * Access to digital cameras.

Student Resources

- * McDermott Library: <http://www.utdallas.edu/library/>
- * Remote Access: Students may download the VPN software for off-campus network access.
<http://www.utdallas.edu/ir/howto/utd-vpn/>
- * UTD Computer Helpdesk: For UTD account connectivity problems call 972.883.2911 or
Email: assist@utdallas.edu. Further information on the website:
<http://www.utdallas.edu/ir/helpdesk>

Grading Criteria

- * Class attendance and participation = 20pts --this includes working on task at hand.
- * Lessons from Adobe Photoshop CC Classroom in a Book = 20pts
- * Two quizzes = 20pts
- * One written critique = 10pts
- * Two major Projects = 30pts

Course & Instructor Policies

To expedite learning process for all, be ready with all assignments on days due. Late work will only be accepted under major extenuating circumstances. All late works receives lower grades - each week the assignment is late the grade is lowered by one grade level. No make-up quiz.

Technical Requirements

Personal Computer Software

- * Web browser: Firefox, or Safari. (UTD prefers that you DO NOT use Internet Explorer.)
- * Virus detection/protection software. McAfee is FREE to students!!
https://www.utdallas.edu/infosecurity/downloads3/IS_login.htm
- * A zip file expansion tool such as WinZip.

eLearning Online Access

UTD NetID account needed to login to the course through UTD eLearning:

<http://elearning.utdallas.edu>

Getting Started with eLearning information:

<http://www.utdallas.edu/elearning/students/getting-started.html>

University Policy

Please review the University Policies on: <http://coursebook.utdallas.edu/syllabus-policies/>

Schedule

Week 1 - August 28 Class: Overview, Syllabus, eLearning, Introductions.

Homework Assignments due before class next week:

Read Lesson 1 & Lesson 2 in *Adobe Photoshop CC Classroom in a Book*.

Upload (to eLearning) your completed files of Lessons 1 & 2.

Week 2 - September 4 Class: Intro to Critique, File types +Basic tools and panels

Homework Assignments due before class next week:

Review RGB color wheel <https://color.adobe.com/create/color-wheel/>

Write a draft of a Critique – critique of one artwork Due Week 4

Read Lesson 3 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 3.

Week 3 - September 11 Class: Intro to Design & RGB Color; +Selection tools & Cropping

Homework Assignments due before class next week:

Edit Critique – critique of one artwork Due NEXT week.

Read Lesson 4 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 4.

Week 4 - September 18 Upload written art critique before today's class.

Class: Design Principles Balance; +Layers

Homework Assignment due before class next week:

Read Lesson 5 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 5.

Week 5 - September 25 Class: Design Principles: Contrast, Emphasis, & Proportion; +Retouching & Adjustment Panel

Homework Assignments due before class next week:

Begin work on Midterm Project Due Week 8

Read Lesson 6 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 6.

Week 6 - October 2 Class: Design Principles: Unity & Variety; +Masks & Channels

Homework Assignments due before class next week:

Review design principles and technical terms for Quiz.

Work on first composition and one page description of Midterm Project.

Week 7 - October 9 Class: Quiz; One composition and one page description of Midterm Project DUE.

Homework Assignment due before class next week:

Complete Midterm Project -Due NEXT Week.

Week 8 - October 16 Upload your Midterm projects to eLearning **before** class today.
Class: Group critiques of midterm projects.

Homework Assignments due before class next week:

Read Lesson 7 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 7.

Read 'The Code Side of Color':

<http://www.smashingmagazine.com/2012/10/04/the-code-side-of-color/>

Week 9 - October 23 Class: Hex numbers +Vector Drawing & Type

Homework Assignment due before class next week:

Read Lesson 8 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 8.

Week 10 - October 30 Class: Compositing, Filters & Light effects

Homework Assignments due before class next week:

Read Lesson 9 from *Adobe Photoshop CC Classroom in a Book*; **Upload** Lesson 9.

View 'Hello World! Processing', a video documentary on: <http://www.processing.org/>

Week 11 - November 6 Class: Design Principles Repetition & Pattern; Actions, Batch, and programming

Homework Assignment due before class next week:

Read Photoshop Help menu "Vanishing Point".

Week 12 - November 13 Class: 3D Vanishing Point, Texturing for 3D Images.

Homework Assignments due before class next week:

Study for Quiz. Begin work on first composition of Final Project.

Week 13 - November 20 Class: Quiz; First composition of final project due. Critique.

Homework Assignment due before class in 2 weeks: Complete Final Project.

Week 14 - November 27 - **FALL BREAK** and Thanksgiving Holiday.

Week 15 - December 4 Upload your Final Projects in eLearning **before** class today.
Class: Group critiques of final projects.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.