

# ARV 210 Computer Graphics II

The Department of Visual Arts, Greenville Technical College, Greer Campus

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**Prerequisites:** ART 111 Basic Drawing I, ARV 121 Design,  
ARV 110 Computer Graphics I, ARV 114 Photography I  
**Credit Hours:** 3

## Required Texts

*Photoshop CS2 STUDIO TECHNIQUES*, Adobe Creative Team  
*Photoshop CS2 CLASSROOM IN A BOOK*, Adobe Creative Team

## Supplemental Texts

*Photoshop CS2 for Windows and Macintosh, Visual Quickstart Guide*, Weinmann and Lourekas  
*The Little Mac OS X Book*, Robin Williams

## Course Description

This course is an advanced computer art course that includes a study of the creation of graphics design using electronic imagery. The focus of this class includes mature techniques of scanning, creating, and manipulation of images for output using Photoshop. This class is appropriate for both graphic and fine arts majors.

## Course Purpose

This course is intended for the beginning to intermediate Photoshop user who is interested in mastering the powerful imaging tools of Photoshop.

## Course Objectives

The student who achieves at least 70% proficiency in this course will:

1. Scan images for various output and resolution requirements, proving advanced proficiency in Photoshop.
2. Repair/retouch photographs for print using Photoshop.
3. Create a black and white image for output using proper levels and curves in Photoshop.
4. Create a duotone image for output utilizing only two spot colors in Photoshop.
5. Utilize masking and clipping paths to generate transparent artwork for Photoshop, Illustrator and Quark.
6. Make image adjustments and print color-matched images with proper color management in Photoshop.
7. Use advanced masks and channels to control image manipulation in Photoshop.
8. Composite multiple images together into a single seamless image in Photoshop.
9. Creatively solve a final project utilizing all prior Photoshop processes.

## Course Requirements

Students will:

1. Complete assigned readings and participate during class discussions and critiques.
2. Take 4 quizzes to establish semantic and practical knowledge of Photoshop and the Mac OS.
3. Complete five major projects specific to Photoshop needs in the graphic design field.
4. Mount and present five projects in a professional manner.
5. Complete a series of exercises that will be turned into an ongoing workbook of Photoshop skills.
6. Spend time outside of class doing lab-oriented homework and assigned readings.

## Grading and Evaluation

5 Projects = 60%  
4 Quizzes = 10%  
1 Workbook = 10%  
Work Ethic = 10%

Final Exam = 10%

### **Materials**

Sketchbook  
Glue stick or rubber cement for school. Spray mount (for at-home use only).  
X-Acto knife and blades  
Metal ruler  
Black mat board for mounting projects  
Digital storage device

### **Projects**

**Scan/Resolution Project:** Students will set up a Photoshop Document with a 150 ppi resolution. Use a single small source image and make multiple scans at various resolutions and scales and interpolations. These images will be placed on the Photoshop document and labeled to illustrate differences.

**Photo Retouching Project:** Scan and retouch an old or damaged photograph. Keep an original file that has no modifications for comparison. Do one image correction (grayscale) using various Photoshop tools. Then "save as" and make the same image utilize a spot color or colorization to emphasize the image. Finally, make a traditional PMS Duotone of the image and save as a DCS Format for output.

**Color Management Project:** Students will be provided with two Original RGB files. Students will color correct their monitor by eye, and then by using a Pantone® Spyder. Students will create an ICC profile for their monitor. Students will then color correct the images in RGB mode by doing soft proofing to CMYK. Students will then correct any out of gamut colors, and save a RGB file with embedded color management. Finally, students will convert the images to CMYK and print the images. Comparing the images to the screen, students will then calibrate print settings to match correct colors.

**Masking/Clipping/Composite Project:** Utilizing a minimum of 5 original images supplied from industry, students will composite them so that they look as though they are a single grouping of thematically related images. Students will utilize clipping paths and masking layers, color management, and many artistic means to show off their Photoshop skills.

**Creative Poster Project:** Students will create a poster to advertise Adobe Photoshop. Students will have to design it so that the normal viewer will be aware of the type of work done to create the work. Using all previous skills, create an image that reflects the student's personal visual interests. This project may use any number of source images, or it may be an illustration project utilizing Photoshop to facilitate the work.