

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: PHT 264

Credits: 3

Course Title: Digital Photography II

Course Description: Teaches theory and practice of digital photography, including the Adobe Photoshop techniques needed for top quality inkjet prints. Emphasizes use of digital cameras in studio and on location. Teaches advanced techniques of image editing, including photo restoration and multi-image compositing. Students work with existing images, including family snapshots and antique photographs, as well as photographs shot specifically for the course. In addition to prescribed assignments, a personal project allows for exploration of creative ideas and topics of the student's choice. Provides training in digital image transmission from remote locations. Prerequisites: Students taking this course should feel comfortable working at a computer, be familiar with negotiating program menus, and know how files are saved and stored. A camera with manually adjustable aperture and shutter is required. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose: What you do with an image after you have it is the focus of the course.

Course Prerequisites and Co-requisites: Computer literacy at a modest level. This means feeling comfortable working at a computer as well as familiarity with negotiating program menus and knowing how files are saved and stored. A camera with manually adjustable aperture and shutter is required. For students who need instruction in the use of a manually adjustable camera, PHT 164 *Introduction to Digital Photography* is a more appropriate course.

Student Learning Outcomes:

Upon completing the course, the student will be able to:

- a. Apply resolution and color quality concepts for image acquisition and reproduction;
- b. Resize images and convert file formats;
- c. Use adjustment layers (*curves, levels, etc.*) to control tone and color balance;
- d. Apply color theory to control color balance in prints;
- e. Create multi-layered images;
- f. Use selection tools and masking techniques effectively;
- g. Use image sharpening techniques effectively;
- h. Use filters creatively;
- i. Use retouching and photo restoration techniques effectively;
- j. Discuss the importance of color profiles and calibration;
- k. Discuss ethical and property rights issues involved with manipulation of images; and
- l. Mount prints suitably for display.

Major Topics to Be Included:

- a. Additive and subtractive color theory
- b. Color temperature of light and white balance
- c. Contrast control
- d. Color correction
- e. Layering and masking
- f. Collage and multi-image compositing
- g. Filters
- h. Retouching and photo restoration
- i. Color profiles and calibration
- j. Ethical and property rights issues
- k. Print presentation and critique

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