

**Course Outline for PHTO 56**

**INTRODUCTION TO DIGITAL PHOTOGRAPHY**

**Effective: Fall 2018**

**I. CATALOG DESCRIPTION:**

PHTO 56 — INTRODUCTION TO DIGITAL PHOTOGRAPHY — 1.50 units

The course covers basics for the beginner's use of digital cameras, film and flatbed scanners, and use of Adobe software for image adjustments. Exploration of digital photography compared with traditional photographic approaches and processes. Operation of Adobe digital imaging software for preparation of web site photos and print output, in both black and white and in color.

1.00 Units Lecture 0.50 Units Lab

**Grading Methods:**

Letter or P/NP

**Discipline:**

- Photography

	<u>MIN</u>
<b>Lecture Hours:</b>	18.00
<b>Expected Outside of Class Hours:</b>	36.00
<b>Lab Hours:</b>	27.00
<b>Total Hours:</b>	81.00

**II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1**

**III. PREREQUISITE AND/OR ADVISORY SKILLS:**

**IV. MEASURABLE OBJECTIVES:**

**Upon completion of this course, the student should be able to:**

- A. Capture digital photographic image and make simple imaging corrections using imaging software
- B. Use the vocabulary and terminology of digital imaging and photography
- C. Utilize techniques used in photography to control digital image levels, contrast, hue and saturation, composition, lens flare, light, motion, gray scale and color balance
- D. Employ digital imaging tools
- E. Demonstrate selection techniques for minor adjustments and alterations of photographic images
- F. Describe different methods for digital capture including how and when use of digital camera is best, its advantages and limitations
- G. Demonstrate digital printing and image uploading for the web
- H. Use service bureaus, photography store and custom services, and photo web processing sites
  - I. Transfer large digital photographic files within a local area network and among various removable storage media
  - J. Analyze the effect of digitally manipulated images on selected segments of society with emphasis on student understanding of media ethics

**V. CONTENT:**

- A. Overview
  1. Define a digital image
  2. How a digital image is created
    - a. Film
    - b. Digital camera
- B. Digital cameras
  1. Overview
  2. Usefulness
  3. Components
  4. Operations
- C. Scanning
  1. Image resolution
  2. File size
  3. Histograms
- D. Color correction
  1. Levels

- 2. Hue/saturation
- 3. Curves
  - a. Highlights
  - b. Shadows
- 4. Color correction
- 5. Saturation
- 6. Image enhancement
- E. Selective color enhancement
  - 1. Utilizing layers
  - 2. Masks
  - 3. Tools
    - a. Selection techniques
    - b. Color tools
      - 1. Software features
      - 2. Match
      - 3. Enhance

#### VI. METHODS OF INSTRUCTION:

- A. **Lecture** -
- B. **Discussion** -
- C. **Demonstration** -
- D. Class critiques
- E. Media examples
- F. Small group activity
- G. **Audio-visual Activity** -

#### VII. TYPICAL ASSIGNMENTS:

- A. Lab
  - 1. Make all necessary corrections to improve a given (less than acceptable) digital image.
  - 2. Manipulate the settings on a digital camera and/or software to modify the lighting and turn a color image into a black and white image.
  - 3. Edit and present a set of "best" images on the web.
  - 4. Print a chosen "best" image in at least three different output sizes or from three different output devices.
  - 5. Alter an image for incongruous/humorous or other special affect.
- B. Reading
  - 1. Read a chapter from the text and explain to your partner how to use these controls:
    - a. seeing the light
    - b. measuring the light
    - c. metering patterns
    - d. working with the light meter
    - e. overriding the light meter
    - f. beating backlight
- C. Writing
  - 1. Prepare an explanation of the standard features of a simple-to-use digital camera and compare it to a semi-professional digital DSLR camera.
  - 2. Using the criteria list, critique your own single best and worst images.

#### VIII. EVALUATION:

##### **Methods/Frequency**

- A. Exams/Tests
- B. Quizzes
- C. Portfolios
- D. Projects
- E. Field Trips
- F. Class Participation
- G. Class Work
- H. Home Work
- I. Lab Activities
- J. Other
  - 1. Classroom critiques after each assignment in which students work with instructor to determine at least five criteria appropriate to the given assignment and apply during oral and written critique of photographs submitted.

#### IX. TYPICAL TEXTS:

- 1. London, Barbara , and Jim Stone. *A Short Course in Digital Photography*. 3 ed., Pearson, 2014.
- 2. Kelby, Scott. *The Adobe Photoshop CC Book for digital Photographers*. 1 ed., New Riders-Peachpit, 2017.
- 3. Stone, Jim, and Barbara London. *A short Course in Photography: Digital*. 3rd ed., Pearson, 2015.

#### X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. USB flash drive
- B. A digital camera