Las Positas College
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Course Outline for PHTO 64A

ARTIFICIAL LIGHT PHOTOGRAPHY

Effective: Fall 2018

I. CATALOG DESCRIPTION:
PHTO 64A — ARTIFICIAL LIGHT PHOTOGRAPHY — 3.00 units

Photography using light sources selected and manipulated by the photographer, use of light sources in a controlled situation to achieve technically accurate renditions of subject matter and to make successful visual statements, and lighting techniques for product, still life, and portrait photography.

1.50 Units Lecture 1.50 Units Lab

Strongly Recommended
PHTO 50 - Introduction to Photography
with a minimum grade of C
or

PHTO 56 - Introduction to Digital Photography
with a minimum grade of C

Grading Methods:
Letter or P/NP

Discipline:
- Photography

	MIN
Lecture Hours:	27.00
Expected Outside of Class Hours:	54.00
Lab Hours:	81.00
Total Hours:	162.00

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

III. PREREQUISITE AND/OR ADVISORY SKILLS:

Before entering this course, it is strongly recommended that the student should be able to:

A. PHTO50
1. Discuss the history of photography and its various vocational and avocational applications
2. Apply the basic principles of the photographic process from the forming of the image and the exposure of the firm, to the reproduction of a photograph by means of contact printing and enlarging
3. Demonstrate the essential mechanisms of the camera and the functional relationships of those mechanism
4. Use various photographic materials, including film printing paper and photo chemistry
5. Develop black and white film, and make contact prints and enlargements from negatives
6. Apply the skills and discipline necessary for reasonable success in photography through proper handling of equipment, facilities, and materials
7. Practice spotting and dry mounting black and white photographs

B. PHTO56
1. Capture digital photographic image and make simple imaging corrections using imaging software
2. Use the vocabulary and terminology of digital imaging and photography
3. Utilize techniques used in photography to control digital image levels, contrast, hue and saturation, composition, lens flare, light, motion, gray scale and color balance
4. Employ digital imaging tools
5. Demonstrate selection techniques for minor adjustments and alterations of photographic images
6. Describe different methods for digital capture including how and when use of digital camera is best, its advantages and limitations
7. Demonstrate digital printing and image uploading for the web
8. Use service bureaus, photography store and custom services, and photo web processing sites
9. Transfer large digital photographic files within a local area network and among various removable storage media

IV. MEASURABLE OBJECTIVES:

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

A. Explain how various light sources affect black and white and color photographic materials
B. Explain practical and theoretical differences between various light sources
C. Employ artificial light sources to produce well crafted and visually successful photographic images
D. Produce studio photographs of products and objects faithfully rendering them in the photographic image in both color and black and white
E. Operate electronic flash equipment in the studio and in field situations
F. Produce portraits using various light patterns and posing.

V. CONTENT:

A. Color temperature
    1. Artifical light source
    2. Use of filters
    3. Daylight and tungsten films
B. Calculating exposure
    1. Light meter techniques
    2. Use of gray card
    3. Lighting ratios
C. Electronic flash
    1. Studio units
    2. Portable flash units
    3. Use of flash meter
    4. Flash accessories
D. Basic studio lighting for products
    1. Light sources
    2. Reflector cards
    3. Modifying light sources
    4. Composition
E. Basic portrait lighting
    1. Rembrandt
    2. Butterfly
    3. Loop
    4. Split
F. Posing
    1. Classical formal posing
    2. Informal posing
    3. Candid posing
G. Outdoor portraits
    1. Exposure techniques
    2. Fill flash
    3. Use of reflectors
    4. Background selection
H. Creative application of artificial lighting
    1. Mood
    2. Form
    3. Texture

VI. METHODS OF INSTRUCTION:

A. **Guest Lecturers** - and laboratory demonstration
B. Utilization of audio/visual materials
C. In-class critique
D. Selected readings
E. **Field Trips** -
F. **Lecture** -
G. **Observation and Demonstration** -
H. **Projects** -
I. **Lab** -

VII. TYPICAL ASSIGNMENTS:

A. Use both studio strobe, studio tungsten and natural lighting; shoot the same model using the same approach and make your best resulting prints for comparison and class critique.
B. Shoot a portrait of a couple (two people or a person with a pet) using one, two, three and four light set ups. Print one of each for class critique.
C. Shoot a table top still life of three fruits or other foods which tells something about the use of these objects. For example: lemons, grapefruits or oranges – one cut up – possibly coupling them with a knife or glass filled with juice.

VIII. EVALUATION:

A. **Methods**

    1. Exams/Tests
    2. Quizzes
    3. Research Projects
    4. Portfolios
    5. Papers
    6. Projects
    7. Field Trips
    8. Class Participation
    9. Home Work
    10. Lab Activities
    11. Other:
        a. Classroom critiques after each assignment in which students work with instructor to determine specific lighting and printing criteria appropriate to the assignment and to apply them to the critique.

B. **Frequency**

    1. Classroom critiques at the conclusion of every class
    2. Quizzes at the conclusion of each unit, approximately 6 times per semester
    3. One exam and a final

4. Weekly lab activities
5. Weekly reading and homework
6. One final project
7. Daily class participation
8. One field trip
9. One porfolio
10. One research project and paper

IX. TYPICAL TEXTS:

1. Hurley, P. (2016). *Headshots* (1 ed.). New York, New York: New Riders-Peachpit.
2. Fancher, N. (2017). *Studio Anywhere 2: Hard Light* (1 ed.). San Rafael, California: Rocky Nook, Inc..
3. Valenzuela, R. (2016). *Picture Perfect Lighting* (1 ed.). San Rafael, California: Rocky Nook, Inc..
4. Kelby, S. (2017). *The Flash Book* (1 ed.). San Rafael, California: Rocky Nook, Inc..

X. OTHER MATERIALS REQUIRED OF STUDENTS:

A. Digital media cards, color negative/slide or black and white film
B. Printing paper
C. DSLR camera or 35mm camera or medium format camera- one that accepts interchangeable lenses
D. USB drive/storage for images