PHOT A187: LABORATORY PRACTICES

Item	Value
Curriculum Committee Approval Date	12/08/2021
Top Code	101200 - Applied Photography
Units	3 Total Units
Hours	108 Total Hours (Lecture Hours 36; Lab Hours 72)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	Yes
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

Course Description

Study of professional black and white photographic techniques. Emphasis on the following areas; film, developer and paper selection and testing, exposure, contrast control (zone system), advanced fine printing techniques, alterations of photographic materials through intensification and reduction, basic sensitometry and practical photochemistry. PREREQUISITE: PHOT A120 or PHOT A120H. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Demonstrate advanced technical skills in photographic printmaking through the application of various methodologies in exposure, development, enlarging and print manipulation.
2. Demonstrate sensitometric theory through the testing of photographic materials.
3. Demonstrate working knowledge of the Zone System, as well as be able to evaluate alternative processes and critical aesthetic values in photography.

Course Objectives

- 1. Differentiate and apply methodologies of film exposure and development.
- 2. Demonstrate a high level of technical skill in enlarging and print manipulation.
- 3. Describe the theory of sensitometry.
- 4. Apply sensitometric theory to the testing and evaluation of photographic materials.
- 5. Discuss the Zone System and other methodologies and their application in fine art and commercial photography.
- 6. Create and evaluate photo images.
- 7. Identify important alternative processes and how they apply to current technologies.
- 8. Recognize critical aesthetic values.

Lecture Content

A. Introduction 1. Grading 2. Requirements 3. Structure of filmsB. Black White negative films 1. Camera systems testing 2. Film testing for speedC. Photographic chemicals 1. Processing procedures 2. Safety proceduresD. Testing results and evaluation 1. Densitometer operationE. Zone system 1. N+, N-development TechniquesF. Zone system exercise 1. Gray scale ruler exerciseG. Zone system exercises evaluation 1. Water-bath procedures 2. Processing alternativesH. Masking 1. Contrast controlI. Photographic papers 1. Processing control and procedures 2. Water-bath development 3. Print solarization techniquesJ. Intensification 1. Reduction - bleaching 2. ToningK. Print flashing 1. Spit filter contrast controlL. Alternative processes 1. Liquid emulsions 2. Application and proceduresM. Cyanotypes 1. Experimental investigation 2. Cyanotype class muralN. Print toningO. Final Critique

Lab Content

Laboratory Content (36 hrs)Arranged (TBA) Content (36 hrs) The following content will be covered in a combination of scheduled and TBA lab hours: A. Overview of lab: 1. Equipment 2. Procedures 3. Safety B. Photography Chemical overview: 1. Types of chemistry 2. Negative control through chemistry C. Process film speed tests 1. Densitometer reading of film D. Zone Speed testing 1. Pushing and pulling of film 2. N+ and N- developing demonstration E. Printing control demonstration 1. Water bath 2. Split filter printing 3. Flashing F. Fiber base print demonstration 1. Development times and procedures 2. Second fix bath 3. Final wash 4. Squeegee board 5. Drying racks G. Advance printing controls: 1. Masking: creating and using masks H. Photographic papers 1. Evaluate and critique various printing papers I. Demonstration of Print Toners 1. selenium 2. sepia 3. Berg toners K. Print-reducing and bleaching demonstration

Method(s) of Instruction

- Lecture (02)
- Lab (04)

Instructional Techniques

Demonstration of various approaches to problem solving through lecture and critiques. Discussion of photographic principles and aesthetic concepts. Instructor and peer feedback through and critique of student work. Slide lecture to illustrate concepts and means. Use of film/video/DVD presentations relating to historical and contemporary ideas. Interactive computer lectures to illustrate the use of the computer as a creative tool. Field trips and demonstrations to illustrate shooting concepts.

Reading Assignments

Students will spend 2 hours reading from selected handouts and contemporary readings provided by the instructor.

Writing Assignments

Writing assignments, 30 minutes per week, will include responses to reading assignments, or exhibition reports.

Out-of-class Assignments

Students will spend 4 hours completing photography and lab assignments designed to explore concepts introduced in lecture. Students will utilize the lab to complete exercises that use problem solving situations related to assignment work. Students will work independently and outside of class to meet assignment requirements.

Demonstration of Critical Thinking

Students will demonstrate critical thinking skills in the production of photographic assignments. These concepts and techniques must be supported verbally in critiques.

Required Writing, Problem Solving, Skills Demonstration

Students will demonstrate skills with the production of photographic imagery, which will communicate visually using technical skills, conceptual, and aesthetic ideas developed through the course. Additionally, students may be asked to write a critical essay on a photographic field visit or guest speaker.

Eligible Disciplines

Photography: Master's degree in photography, fine arts, or art OR bachelor's degree in any of the above AND master's degree in art history or humanities OR the equivalent. Master's degree required.

Other Resources

1. Contemporary selected readings. 2. Selected handout materials will be provided and distributed by the instructor.