

University of Arkansas - Fort Smith
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General Syllabus

GDES 32203 Digital Photography Credit

Hours: 3

Lecture Hours: 2

Studio Hours: 4

Prerequisite(s): ARTS 11253 Digital Imaging or consent of instructor.

Effective Catalog: 2019-20

I. Course Information

A. Catalog Description

Explores digital image creation and digital darkroom technologies. Students learn possibilities and limitations of digital cameras, processing images in terms of photo-editing and manipulation, color managements and workflow, and batch-processing techniques. Output technologies, such as film, inkjet printers, dye-sublimation and prepress preparation are discussed.

II. Student Learning Outcomes

A. Subject Matter

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

1. Demonstrate strong knowledge of digital SLR camera operation
2. Identify and describe the CCD sensor in digital image equipment
3. Define ISO, shutter speed, aperture, lens speed, reciprocity and identify lens
4. Obtain high-quality images from cameras and scanner
5. Evaluate digital images for noise, color imbalance, lens distortion, and bad exposure
6. Operate a digital SLR camera in Manual exposure mode
7. Prepare digital images using a computer as a digital darkroom
8. Edit photographs for tonal and color corrections
9. Demonstrate advanced digital imaging skills
10. Prepare digital files correctly for various output applications

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills**Critical Thinking**

Students will determine lighting angles for the most appropriate outcomes. Students must use ratio to achieve proper exposure and understand numerical references as applies to camera operation and photography.

Communication Skills (Written and Oral)

Students will be required to clarify information presented by answering specific questions regarding the projects assigned. They will demonstrate a relationship between prior knowledge and the information provided by referring to what was previously learned in regards to composition, camera use, concept and postproduction.

Ethical Decision Making

Students will understand issues involving copywriting and imagery to be applied in ideation, research, and execution of original art and design solutions. Problems concerning subject matter copyright, derivative work, and image manipulation ethics will be probed.

III. Major Course Topics

- A. Digital camera technology
- B. Preliminary image evaluation
- C. Preparing adequate workstations for digital photography
- D. Shooting with digital SLR camera
- E. Exposure, ISO, shutter speed, lenses, aperture
- F. Manual exposure mode
- G. Specialized photography applications
- H. Digital darkroom procedures
- I. Tonal and color corrections
- J. Histograms
- K. Advanced digital photo editing skills
- L. Image output technology