

University of Arkansas – Fort Smith

5210 Grand Avenue

P. O. Box 3649

Fort Smith, AR 72913–3649

479–788–7000

General Syllabus

GRDS 3223 Digital Photography

Credit Hours: 3

Lecture Hours: 2

Studio Hours: 4

Prerequisite: ART 1123 Digital Imaging or consent of instructor

Effective Semester: Summer I 2013

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.

B. Additional Information - None

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. Demonstrate the ability to obtain high-quality images from cameras and scanner
5. Evaluate digital images for noise, color imbalance, lens distortion, and bad exposure
6. Demonstrate the ability to operate a digital SLR camera in Manual exposure mode
7. Demonstrate the ability to prepare digital images using a computer as a digital darkroom
8. Edit photographs for tonal and color corrections
9. Demonstrate exemplary 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

Problem solving is one of the main focuses of Digital Photography. All course exercises and examinations require the student to define and research the problem, generate a number of possible solutions, and finally execute the best solution to the problem based on the information at hand.

Communication Skills (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 post-production.

Ethics

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.

Technological Skills

A large variety of digital photography equipment will be used in this class. The student will obtain and edit digital images and operate digital cameras and scanners. Students will demonstrate exceptional computer competence from project inception to final hardcopy output.

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