

Syllabus
ART 371 – Advanced Techniques in Digital Photography
For
Digital SLR and Advanced Amateur Digital Cameras
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SUMMER Term 2018: May 21 – July 21

Course Description:

This class is designed to provide students with the advanced techniques in digital photography. The course will include location shooting and classroom-based editing techniques with various editing programs.

Learning Outcomes:

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

1. Thoroughly understand the fundamentals of creating digital images, e.g. – shutter speed, aperture and ISO.
2. Understand lighting techniques – natural, flash and constant light sources.
3. Understand image editing programs and other programs useful in digital photography – e.g. – data recovery, transfer, etc.
4. Use of tripod, accessory flash/lighting and other camera accessories.
5. Editing techniques and image manipulation.
6. Incorporating images into presentations and for display online.

Materials Required:

1. A Digital camera –Digital Single Lens Reflex Camera (SLR, interchangeable lenses) Examples: Nikon D3400, D300, Canon 80D, Digital Rebel, Sony Alpha, Pentax D100, Olympus 300, etc.
or an adjustable Point-and-Shoot digital camera(**Must be able to adjust SHUTTER SPEED, APERTURE and ISO**). Zoom lens advisable(wide to near telephoto) or fixed focus lens(es) covering wide angle to near telephoto.
2. Digital media – e.g. – Compact Flash (CF) card, Secure Digital (SD) card, or other appropriate media for the camera in use.
3. Tripod (sturdy!)
4. Electronic Flash – Accessory/add-on shoe mount flash.
5. Access to printer or ability to have prints made for some assignments.
6. Polarizing filter (optional).
7. Cable release or wireless remote (both are optional).
8. **Please always bring the manual** for your camera to the classes!

Text(s):

“[The Beginner's Photography Guide](#)” 2nd Edition (Chris Gatum,
©2016 DK, ISBN-13: 978-1-4654-4966-5(optional, but recommended)

Course Schedule

- Week 1:** Shooting landscapes, wide area vistas. **Field assignment with class. Location TBA.**
Introductions. Discussion of course content, goals and objectives, expectations and grading structure.
Review of “The Basics” – Shutter speed, Aperture, ISO.
Discussion of camera types, lenses, accessories.
In depth look at individual cameras, menus & controls – settings for specific shooting assignments. Camera care & sensor care.
Media and care of digital media. Transferring images. Computer programs used in course, basic computer review. Discussion of landscape photography/HDRI imaging.
Depth-of-field discussion & best modes for landscapes.
- Read for Wk 1 -** **Assignment: Landscape(s), wide field of view images.**
Reading: Text: 9-41, 102-119, Equipment & lenses. 166-181 – Image enhancement.
- Week 2:** Classroom, Doane Lincoln Campus
Review of Landscape assignment. Loading images into student folder(s), opening & manipulating images. Editing landscape images. HDRI editing in CS3. Diagnosing image “problems” with EXIF information.
Reading: Text: 40-79, Modes, Histogram, 54-61 62-73, 122-129. Shutter Speed & White Balance/Color Temperature
- Week 3:** Building/Architectural Shoot: Perspective. Location TBA.
Controlling perspective in the field.
Assignment: Buildings, structures – architectural.
Reading:
- Week 4:** Classroom: Editing building/architectural images.
Controlling perspective in the computer.
- Week 5:** Field, Location TBA:

Nature, flowers, plants, close-up and waterfalls.

Assignment: Composition.

Reading:

Week 6 Classroom – Editing Nature & Close-up images

Assignment 7 – Electronic flash.

Reading: Text: 164-181

Assignment : Composition - Review.

Reading: Text: 122-163

Week 7 Studio: Portraiture/"people" shots. Location: Instructor's studio at: 3601 Calvert, Lincoln, NE.

Electronic flash, Incandescent and available lighting discussion.

Assignment 7 – Electronic flash - Review.

Reading: Text: 122-181

Week 8 Image editing: Portraiture.

Course Grade will be based on:

- 1). Completion of shooting assignments, Participation & attendance – 50%
- 2). Classroom activities: Image editing, completion of image editing assignments – 25%
- 3). Preparation of finished images for display and/or printing. – 25%