Syllabus

ART 371 – Advanced Techniques in Digital Photography
Digital SLR and Advanced Amateur Digital Cameras

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 D90, D300, Canon 40D, 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):

“Take Your Photography to the Next Level”, George Barr,
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:** Barr: Introduction, Chapter 1, Chapter 3

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:** Barr: Chapter 2

Week 3: Building/Architectural Shoot: Perspective. Location TBA.
Controlling perspective in the field.

**Assignment:** Buildings, structures – architectural.
**Reading:** Barr: Chapter 4

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:** Barr – Review Chapter 3
Week 6  Classroom – Editing Nature & Close-up images  
Assignment 7 – Electronic flash.  
Reading:  Barr: Chapters 5 & 6  
Assignment:  Composition - Review.  
Reading:  Barr – Review Chapter 3

Week 7  Studio: Portraiture/”people” shots. Location: Instructor’s studio.  
Electronic flash, Incandescent and available lighting discussion.  
Assignment 7 – Electronic flash - Review.  
Reading:  Barr: Chapters 5 & 6

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%