

# Syllabus

## Winter 1 - 2011

### 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!
9. **Bring four (4) representative (your favorite) RAW images to 1<sup>st</sup> class**

#### Text(s):

“Take Your Photography to the Next Level”, George Barr,  
©2008 Rocky Nook, ISBN: 978-1-933952-21-5

## Course Schedule

### Week 1:

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.

**Assignment 1: Landscape(s), wide field of view images.**

**Reading: Barr: Introduction, Chapter 1, Chapter 3**

### Week 2:

Shooting landscapes, wide area vistas. Field assignment with class. Location TBA.

**Assignment 2: Buildings, structures – architectural.**

**Reading: Barr: Chapter 2**

### Week 3:

Classroom -

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.

**Assignment 3: Buildings, structures – architectural.**

**Reading: Barr: Chapter 4**

### Week 4:

Building/Architectural Shoot: Perspective. Location TBA.

### Week 5

Classroom: Editing building/architectural images.

### Week 6

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

Classroom: Editing.

**Assignment 6: Composition.**

**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.**  
**Reading:      Barr: Chapters 5 & 6**

Week 8      Image editing: Portraiture

**Course Grade** will be based on: 1). Completion of weekly shooting and Editing assignments. 2). Class participation and attendance.