

South University
College of Creative Art & Design
The Art Institute of Raleigh-Durham

Course Title: Lighting
Course Number: PHOA113
Class Meetings: Wednesdays, 8 a.m. – 12 noon, Fowler 205 (Lighting Studio)
Session/Year: Fall 2013
Instructor Name: Andrew Ross
Email Address: aiiandrewross@gmail.com (preferred) or awross@aii.edu
Phone:
Instructor Availability Outside of Class: Wed. 12 - 1 p.m., Fri. 12 - 1 p.m., or by appointment

Course Description:

Students will be introduced to the basic concepts and principles of lighting for photography. Fundamentals of recognizing and controlling both natural and studio lighting with emphasis on the quality, quantity, and direction and its effect on the photographic image.

Course Prerequisite(s): *Principles of Photography*

Course Co-requisite(s): *None*

Instructional Contact Hours/Credits:

Course Length: 11 Weeks

Contact Hours: 44 Hours

Lecture: 22 Hours

Lab: 22 Hours

Credit Values: 3.0 Credits

Quarter Credit Hour Definition: A quarter credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

- (1) One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for 10-12 weeks, or the equivalent amount of work over a different amount of time; or
- (2) At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

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Learning Objectives:

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

Demonstrate lighting skills in the studio and on location

- Explore singular- to multiple- and mixed-light sources to demonstrate functionally appropriate lighting skills
- Identify and relate the fundamental and physical characteristics and attributes of light and its role in photographic images
- Employ tools to manipulate light
- Recognize the proper setup, organization, safety, and care of lights and related equipment
- Employ a broad range of lighting instruments including tungsten, flash and small flash units

Apply various light-measuring devices and techniques to measure and determine appropriate exposure

- Determine the functions of aperture and shutter speed in relation to studio and on-location situations and assignments
- Operate flash, reflective and incident hand-held light meters
- Utilize Histograms to demonstrate the effects of exposure

Recognize the aesthetic function of lighting on the photographic image

- Produce photographs that are technically and aesthetically appropriate for the subject and assignment
- Describe the positive and negative attributes of an image

Instructional Materials and Reference(s):

Text(s): Hunter, Fil; Biver, Steven; and Fuqua, Paul. (2007) Light: Science and Magic: An Introduction to Photographic Lighting, (3rd edition), Focal Press. ISBN: 978-0240808192

Materials: SD or CF camera card (at least 8 GB), Flash (thumb) drive and/or external HD, Card reader

Technology Needed:

Adobe Photoshop CS6 and Adobe Bridge CS6.

Instructional Methods:

This course will be delivered as a combination of in class lectures and laboratory experiences.

Assessment Criteria and Methods of Evaluating Students:

This class will have both Homework Assignments and Creative Projects. Each project/assignment will vary as far as requirements. Each Assignment and Project will be given with a typed handout explaining the guidelines for that particular assignment/project. The

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criteria will be discussed and clarified in class, however it is your responsibility as a student to follow those criteria. Everything you need to know will be listed on the handout. The grading rubric for each project/assignment will also be explained on the handout. **READ THE ASSIGNMENT/PROJECT DESCRIPTIONS CAREFULLY, AND FOLLOW THE OUTLINED DIRECTIONS.**

If the project/assignment is to be turned in digitally, I expect you to either upload the required materials to my Dropbox account *before* class or bring a jump drive to class containing a folder with your assignment. Be *sure* that all required files are contained in a folder with YOUR NAME and ASSIGNMENT # as its name. If you decide to use CDs, they must be readable to both Mac and PC and must be tested before turning in the assignment.

Student Evaluation / Grading Policies:

Methods of Assessment		Grading Scale	
Projects (2) <i>(each project is worth 15%)</i>	30%	94 – 100	A
Homework Assignments (3) <i>(each assignment is worth 5%)</i>	15%	90 – 93	A-
Quizzes/Reading Responses	20%	87 – 89	B+
Professionalism/Participation	10%	83 – 86	B
Final Project	25%	80 – 82	B-
Total	100%	77 – 79	C+
		73 – 76	C
		70 – 72	C-
		67 – 69	D+
		60 – 66	D
		59 and lower	F

Classroom Policy:

All of the course expectations, lab rules, and student behavior expectations outlined in the AI Photography Expectations Supplement are considered to be a part of this syllabus. This supplement is available in the Doc Sharing of eCompanion.

BRING YOUR CAMERA TO EVERY CLASS SESSION. If you do not bring your camera to class, you will not be able to participate in the class activity and I will deduct Professionalism/Participation points for that day.

Student Art Work:

The Art Institute of Raleigh-Durham seeks to foster a spirit of honesty and integrity. Any work submitted by a student must represent original work produced by that student. Any source used by a student must be documented through normal scholarly references and citations, and the extent to which any sources have been used must be apparent to the reader. **The school further considers resubmission of work produced for one course in another course or the submission of work done partially or entirely by another to be academic dishonesty.** It is the

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student's responsibility to seek clarification from the course instructor about how much help may be received in completing an assignment or exam or project and what sources may be used.

Students are expected to complete all original work without collaboration and within the specified time. Students are expected to respect and uphold standards of honesty in submitting written work to the Instructor. Students found guilty of academic dishonesty or plagiarism shall be subject to disciplinary action up to and including dismissal from school. Plagiarism will automatically lead to a grade of F for the course.

Disabilities Services:

The Art Institute of Raleigh Durham, A Campus of South University provides accommodations to qualified students with disabilities. The Disability Services office assists qualified students with disabilities in acquiring reasonable and appropriate accommodations and in supporting equal access to services, programs and activities at The Art Institute of Raleigh Durham, A Campus of South University.

Students who seek reasonable accommodations should notify the Disabilities Services Coordinators at 1-855-855-0567, dss@aii.edu, of their specific limitations and, if known, their specific requested accommodations. Students will be asked to supply medical documentation of the need for accommodation. Classroom accommodations are not retroactive, but are effective only upon the student sharing approved accommodations with the instructor. Therefore, students are encouraged to request accommodations as early as feasible with the Disability Services Coordinator to allow for time to gather necessary documentation. If you have a concern or complaint in this regard, please contact David Lee, Director of Student Affairs at 919-317-3097 or dmlee@aii.edu. Complaints will be handled in accordance with the school's Internal Grievance Procedure for Complaints of Discrimination and Harassment.

Attendance Policy:

A student who accumulates ten (10) cumulative hours of absenteeism (or 23% of class meeting hours) in a scheduled course during any academic quarter will receive a grade "F" for that course. Students will not be automatically withdrawn from a class for ten (10) consecutive hours absent.

The Registrar will automatically terminate from school any student who fails to attend all classes on his/her schedule for two (2) consecutive weeks of the quarter.

Student Conduct Policy:

For full student conduct policy, please refer to the student handbook.

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Weekly Schedule

Week 1 **October 2**

Introduction and overview of course, objectives and syllabus
Demo on eCompanion
Review of camera controls, exposure modes, focus modes, setting date/time
Review of Motion and Depth of Field
Colors of light – visible spectrum, wavelengths
Light metering – reflective vs. incident; 18% grey; grey card
Shooting in manual exposure mode; shooting in RAW; file formats
Lighting principles, types of light, light sources
Homework: complete Homework Assignment 1 (due Week 2)
Homework: read Chapters 1 & 2 from Light, Science and Magic (on eCompanion)
Homework: review f-16 rule explanation (on eCompanion)

Week 2 **October 9**

DUE: Homework Assignment 1, class discussion
Quiz on reading and class material
Basics of photo criticism
Discuss white balances; when to use each; how to set a custom white balance
Contrast – hard and soft lighting
Using a hand-held *incident* light meter
Demo on Camera Raw and Photoshop – correcting white balance and exposure
Homework: Homework Assignment 2 (due Week 3) – White Balance Settings and Hand-held Light Metering
Homework: read White Balance Settings (on eCompanion)

Week 3 **October 16**

DUE: Homework Assignment 2, class discussion
Quiz on reading and class material
Q&A on Camera Raw and Photoshop
Demo on using Camera Flash; flash sync speeds; flash TTL light metering
Reflector demo outside (3-person teams)
Portrait-directing demo/class discussion
Practice techniques for Homework Assignment 3
Homework: Homework Assignment 3 (due Week 4) – Fill Light, Reflector and Flash
Homework: start Project 1 (due Week 5) – Photographing People/Objects With Varied Angles of Light

Week 4 **October 23**

DUE: Homework Assignment 3, class discussion
Lecture: high key and low key: how lighting affects mood
Contrast ratios; metering highlights and shadows to determine contrast ratios
STRONG grasp of primary f-stops; why we need them for using light meter
Inverse Square Law; definition of f-stops
Making sunlight lighting diagrams; on-line tools
Practice lighting angles for Project 1
Homework: finish Project 1 (due Week 5)
Homework: reading TBD

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Weekly Schedule

Week 5 **October 30**

DUE: Project 1, critique

Quiz on reading and class material

Studio: setting up Spider (“hot”) Lights, bays, backdrops, teams, studio rules, etc.

Demo 1- and 2-point lighting; family of angles and reflection

Taking setup photos and making studio lighting diagrams

Practice lighting set-ups for Project 2 in teams (studio portrait + props)

Metering and White Balance with Hot Lights

View examples of studio photography

Homework: start Project 2 (due Week 7) – Studio Portrait with Prop(s)

Homework: reading TBD

Week 6 **November 6**

Individual student meetings, midterm grades

Review: shooting in Manual mode

Portrait lighting setups: clamshell, Rembrandt, split-lighting, glamour lighting

Demo 3-point lighting, third light or reflector

Homework: complete Project 2 (due Week 7)

Week 7 **November 13**

DUE: Project 2, critique

Quiz on reading and class material

Final Project options

Review Camera Raw and Photoshop

Tear sheet exercise: identifying light

Lighting diagrams and reverse engineering tear sheets

Homework: bring in tear sheets and lighting diagrams for Final Project

Week 8 **November 20**

DUE: Final Project tear sheets and lighting diagrams – review and discuss

Studio/lab time to practice needed techniques

Discuss how to edit a body of work; review Camera Raw and Photoshop

Homework: take initial photos for final project, setup shots, and lighting diagrams for Week 9 progress check

Week 9 **November 27**

DUE: Final Project progress check 1 – review your initial photos and lighting diagrams

Studio/lab time

Homework: take more photos for final project, setup shots, and lighting diagrams for Week 10 progress check

Week 10 **December 4**

DUE: Final Project progress check 2 – edits, final choices

Studio/lab time

Week 11 **December 11**

DUE: Final projects

Presentation and critique of final projects