

## **IMAGE, OPTICS & CINEMATIC MOTION - DC 274 Fall 2013**

**INSTRUCTOR: Andy Roche**

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**Lecture Location: Tu 1:00PM - 4:15PM LEVAN 00301, Lincoln Park**

**Lab Location: T W 9:00AM - 11:00AM STDCT 00363, Lincoln Park**

**Office: M/W 12.45-1.30 Classroom**

### **Course Description**

Cinematography is the scientifically grounded discipline of making lighting and camera choices in order to record moving images. This course deals with the basic mathematics, physics, and photochemistry that underlies cinematography and that motivate camera design and construction. While we have adopted motion images into our daily lives, most people are unaware of the complexities involved in its creation and distribution- the "language of motion".

As opposed to photography where the story is one still image, cinematography must deal with objects in motion and the consequential time based considerations of shutter speed vs. frame rate, image resolution, camera motion, motion perception of the viewer and the display of the image(s) on large screens.

A student who masters the foundations of cinematography through a mixture of lectures, readings, exercises, and labs will be able to evaluate understand how motion based recording choices affect perception of moving images they see every day.

### **Course objectives:**

- To control the depiction of three-dimensional space on a 2D surface through the use of optics
- To understand the nature of light and film/video latitude
- To understand how to control exposure
- To determine a visual "look" and achieve it through photochemical and/or digital means
- To understand how the relationship of resolution, frame rate, shutter speed and camera movement influence the viewer

### **Required Texts**

Blain Brown - Cinematography: Theory and Practice. Focal Press, 2002.

Hand-outs as supplied by instructor

## **Grading**

Participation	10%
Reading quizzes	10%
Assignments & in-class Labs	30%
Midterm	20%
Final Exam	30%

All grading is final (assignments may not be resubmitted for new grades). All assignments are due the date noted when assigned. Late assignments will be penalized 10% per week late. If an assignment is more than two weeks late, it is worth a maximum of 50% of its original point value.

If you anticipate you will miss class, the assignment must be submitted the day it is due, unless the absence for the class is excused (documented illness, death in the family, etc.).

## **Weekly Schedule** (subject to change)

Readings and handouts will be assigned throughout quarter

### **WEEK 1**

**Lecture - A HISTORY OF MOVING IMAGES & CAMERAS**

**Lecture - THE TECHNICAL TRANSFORMATION OF REALITY**

### **WEEK 2**

**Lecture - EXPOSURE AND PHOTOGRAPHY**

**Lecture - UNDERSTANDING LIGHTING AND DEPTH OF FIELD**

### **WEEK 3**

**Lecture - OPTICS**

**Lecture –**

**Lecture - SPECIALIZED CINEMATOGRAPHY**

**MIDTERM REVIEW**

### **WEEK 4**

**MIDTERM EXAM**

**Lecture – COLOR THEORY AND SCIENCE**

**Lecture – IMAGE CONTROL AND HISTORY OF TV**

### **WEEK 5**

## **Lecture - COMPREHENSIVE REVIEW/FUTURE OF CINEMATOGRAPHY FINAL EXAM – LAST CLASS MEETING**

**Course Policies** – in addition to DePaul University course policies (see student handbook), the following special policies will apply to this course.

**Attendance** – Classes will consist of lecture, screenings, discussion, and creative exercises. Attendance is mandatory. An absence is defined as not showing up for class, or showing up after class has started without valid excuse. Any unexcused absences will result in a reduction of the participation grade. Two absences result in the reduction of the final grade by one letter. Three absences result in an automatic F for the course.

### **Late Work**

Assignments and exercises must be completed by the due date provided. Late work will not be accepted without prior consent of the instructor.

### **Laptops**

This class has a no-laptop policy during normally scheduled lecture and screening class sessions. Please do not bring a laptop to class. Please do not use any devices with keyboards & screens (iPhones, Blackberrys, whatever) to take notes in class.

### **Class Discussion**

Student participation in class discussions will be measured in two ways. First, students are highly encouraged to ask questions and offer comments relevant to the day's topic. Participation allows the instructor to "hear" the student's voice when grading papers. Secondly, students will be called upon by the instructor to offer comments related to the reading assignments. Students must keep up with the reading to participate in class discussion.

### **Attitude**

A professional and academic attitude is expected throughout this course. Measurable examples of non-academic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another's opinion, cell phones ringing, emailing, texting or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom. The professor will work with the Dean of Students Office to navigate such student issues.

### **Civil Discourse**

DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be [Socially Responsible Leaders](#). It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student's ability to be successful in the course. The professor will partner with the Dean of Students Office to assist in managing such issues.

### **Changes to Syllabus**

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in COLWeb and sent via email.

### **Online Course Evaluations**

Instructor and course evaluations provide valuable feedback that can improve teaching and learning. The greater the level of participation, the more useful the results. As students, you are in the unique position to view the instructor over time. Your comments about what works and what doesn't can help faculty build on the elements of the course that are strong and improve those that are weak. Isolated comments from students and instructors' peers may also be helpful, but evaluation results based on high response rates may be statistically reliable (believable). As you experience this course and material, think about how your learning is impacted. Your honest opinions about your experience in and commitment to the course and your learning may help improve some components of the course for the next group of students. Positive comments also show the department chairs and college deans the commitment of instructors to the university and teaching evaluation results are one component used in annual performance reviews (including salary raises and promotion/tenure). The evaluation of the instructor and course provides you an opportunity to make your voice heard on an important issue – the quality of teaching at DePaul. Don't miss this opportunity to provide feedback!

### **Academic Integrity and Plagiarism**

This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>.

The university and school policy on plagiarism can be summarized as follows: Students in this course should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work any assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

### **Withdrawal**

Students who withdraw from the course do so by using the Campus Connection system (<http://campusconnect.depaul.edu>). Withdrawals processed via this system are effective the day on which they are made. Simply ceasing to attend, or notifying the instructor, or nonpayment of tuition, does not constitute an official withdrawal from class and will result in academic as well as financial penalty.

### **Retroactive Withdrawal**

This policy exists to assist students for whom extenuating circumstances prevented them from meeting the withdrawal deadline. During their college career students may be allowed one medical/personal administrative withdrawal and one college office administrative withdrawal, each for one or more courses in

a single term. Repeated requests will not be considered. Submitting an appeal for retroactive withdrawal does not guarantee approval.

College office appeals for CDM students must be submitted online via MyCDM. The deadlines for submitting appeals are as follows:

Autumn Quarter: Last day of the last final exam of the subsequent winter quarter

Winter Quarter: Last day of the last final exam of the subsequent spring quarter

Spring Quarter: Last day of the last final exam of the subsequent autumn quarter

Summer Terms: Last day of the last final exam of the subsequent autumn quarter

### **Excused Absence**

In order to petition for an excused absence, students who miss class due to illness or significant personal circumstances should complete the Absence Notification process through the Dean of Students office. The form can be accessed at <http://studentaffairs.depaul.edu/dos/forms.html>. Students must submit supporting documentation alongside the form. The professor reserves the sole right whether to offer an excused absence and/or academic accommodations for an excused absence.

### **Incomplete**

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. CDM policy requires the student to initiate the request for incomplete grade before the end of the term in which the course is taken. Prior to submitting the incomplete request, the student must discuss the circumstances with the instructor. Students may initiate the incomplete request process in MyCDM.

- All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval.
- If approved, students are required to complete all remaining course requirement independently in consultation with the instructor by the deadline indicated on the incomplete request form.
- By default, an incomplete grade will automatically change to a grade of F after two quarters have elapsed (excluding summer) unless another grade is recorded by the instructor.
- An incomplete grade does NOT grant the student permission to attend the same course in a future quarter.
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## **Students with Disabilities**

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at:

Student Center, LPC, Suite #370

Phone number: (773)325.1677

Fax: (773)325.3720

TTY: (773)325.7296