

PHYSICS 106 LIGHT, PERCEPTION, PHOTOGRAPHY, AND VISUAL PHENOMENA

1. INSTRUCTORS

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Office Hours: Monday 3-4pm or by appointment. Feel free to contact me to schedule a meeting.

2. MEETING TIME AND PLACE

Room 1410 John S. Toll Physics Building

Monday, Wednesday, and Friday 2:00 pm - 2:50 pm

3. TEXTBOOKS

3.1. **Required:** Seeing the Light: Optics in Nature, Photography, Color, Vision, and Holography (Wiley, 1986) by David R. Falk, Dieter R. Brill, David G. Stork

4. GRADING

Grading: 30% best two of three regular exams
15% Homework
15% Class participation
15% Paper
25% Final Exam

Clickers will used to assign participation grades.

4.1. **Exams.** There will be three hour exams (I will drop the lowest score after normalization) and a final exam.

Hour exams: (Preliminary Schedule) Wednesday Feb 18, Wednesday March 25, Wednesday April 22

Final exam: Monday May 18 1:30-3:30pm

All exams are closed book, but necessary (and unnecessary!) formulae will be provided.

Make-up exams will be not given for the hour exams since one exam will be dropped.

4.2. Paper. A 2-3 page (single spaced) paper will be due (tentatively) April 14, 2014. Every day late will result in a 20% reduction in the grade. This assignment will be an explanation of a visual phenomenon, optical technology, or optical property written at the level of a New York Times Science Times article. It must be properly referenced, and submitted on paper as well as electronically (more details will be provided in class). Plagiarism will not be tolerated.

4.3. Homework. Homework will be assigned and collected weekly. The assignments will be posted on our ELMS website as well as in lecture. Late homework will not be accepted except in the case of illness verified by a doctor's signature.

5. TIPS FOR DOING WELL

- (1) Read the book before coming to class and be prepared to ask questions.
- (2) Attend the lectures and use your clicker. The lectures, demonstrations, and discussions are all tools to demonstrate the material and help you learn. Material covered in lecture, but not in the book, may appear on exams. Clickers will be used to count class participation. Having someone else bring and use your clicker for you is academic dishonesty and will be treated as such.
- (3) It is important to spend time on the homework. It is much easier to follow an argument than to apply knowledge on your own. This is where gaps in your knowledge often become apparent. You may collaborate with your classmates, but make sure you can answer the questions on your own.
- (4) Discuss the course content with your classmates. Explaining the course content is a powerful way to crystalize your knowledge.
- (5) Ask for help. If you are struggling in the course, don't wait until the day before the exam to address it.

6. ACADEMIC INTEGRITY

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate students. As a student, you are responsible for upholding the highest standards of academic integrity in this course and should be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://www.studenthonorcouncil.umd.edu/whatis.html>.