

**OPTI 201R**  
**Geometrical and Instrumental Optics I**  
**Class Policies – Fall 2011**

*Lecture: MWF, 8:00 - 8:50 am, Meinel Building, Room 410*



“Dr. Mike”



[www.optics.arizona.edu/nofziger](http://www.optics.arizona.edu/nofziger)

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**Instructor:** Michael Nofziger, PhD (a.k.a. “Dr. Mike”)

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**Office:** Room 412A  
Meinel Building

**Office Hours:** Tuesdays: 1 p.m. – 3 p.m.  
Thursdays: 1 p.m. – 3 p.m.  
(Also by appointment)

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**Grader:** Adoum Mahamat

**Email:** [amahamat@optics.arizona.edu](mailto:amahamat@optics.arizona.edu)

**Office Hours:** Monday and Wednesdays: 10am -11am  
8<sup>th</sup> floor, break-out area

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**Undergrad Study Center:** Room 424

**Study Center Hours:** TBD...

**Objectives:**

This course will cover the following topics in geometrical optics:

- (Ch. 1) Light propagation
  - (Ch. 2) Reflections and refractions at optical surfaces
  - (Ch. 3) Image formation
  - (Ch. 4) Mirrors and prisms
  - (Ch. 5) Curved optical surfaces
  - (Ch. 6) Thin lenses
  - (Ch. 7) Thick lenses
  - (Ch. 8) Mirrors
  - (Ch. 9) Optical apertures
  - (Ch. 10) Paraxial ray tracing
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**Textbook:**

- Eustace L. Dereniak - *Geometrical and Trigonometric Optics* (Cambridge, 2009)  
ISBN 978-0-521-88746-5 Available at the UA Bookstore

**Class Notes and Syllabus:**

On-line at : [www.optics.arizona.edu/nofziger](http://www.optics.arizona.edu/nofziger) (then click on OPTI 201R).

Note that our class syllabus may be subject to change with reasonable advance notice, as deemed appropriate by the instructor. Grading, absence policies, and exam times will NOT change.

**Suggested Reading:**

- John E. Greivenkamp, *Field Guide to Geometrical Optics* (SPIE Press)
- Gregory Smith, *Practical Computer-Aided Lens Design* (Willmann-Bell)
- Jenkins and White, *Fundamentals of Optics* (McGraw-Hill)
  
- Warren J. Smith, *Modern Optical Engineering* (SPIE Press)
- Eugene Hecht, *Optics* (Addison-Wesley Publishing Company)

**Grading:**

- Problem Sets (Homework): 30%
- 2 Midterm Exams: 20% each = 40%
- Final Exam: 20%
- Quizzes: 10%
- Final grading will be done on a curve.
- Your lowest homework score will be dropped.
- ***Corrections to errors in grading will only be considered within one week following the return of the homework assignment or exam.***

**Homework:**

- Homework assignments and their DUE dates will be posted on our on-line Syllabus. (New homework sets will NOT be handed out in class on paper, only electronically through our on-line Syllabus). You will have (a minimum) of one week to do each homework set.
- Homework will be collected *at the start of class (8:00am)* on the DUE date.
- Homework turned in *after it has been collected* will not be accepted, unless accompanied by a written letter from a doctor or a hospital. NO exceptions.
- Your lowest homework score will be dropped.
- You may work with other classmates on the homework sets. In fact, this is encouraged. However, be sure that you really understand and actually learn the material—all exams must be your own work!

**Classroom Policies:**

- Turn off all cell phones and pagers.
- No talking during class, unless for class participation!
- No food in the classroom, please.
- The only electronic device allowed during the exams will be a calculator. Any student who uses any other electronic device (laptop, cell phone, cell phone camera, PDA for texting, etc.) will receive a zero (0%) for that exam.

**Attendance Policy:**

It is important to attend all classes, as what is discussed in class is pertinent to adequate performance on assignments and exams. If you must be absent, it is your responsibility to obtain and review the information you missed. Unannounced quizzes will be given to encourage attendance, and to help you gauge your progress in learning the material.

***If you miss the midterms or final exam, they may not be made up unless you have a documented medical or family emergency. Quizzes may not be made up for any reason.***

## **Academic Integrity**

The University of Arizona Code of Academic Integrity may be found on the Dean of Students website at: <http://deanofstudents.arizona.edu>

“Integrity is expected of every student in all academic work. The guiding principle of academic integrity is that a student’s submitted work must be the student’s own.” Unless otherwise noted by the instructor, work for all assignments in this course must be conducted independently by each student. CO-AUTHORED WORK OF ANY KIND IS UNACCEPTABLE.

Misappropriation of exams before or after they are given will be considered academics misconduct.

Misconduct of any kind will be prosecuted and may result in any or all of the following:

- Reduction of grade
- Failing grade
- Referral to the Dean of Students for consideration of additional penalty, i.e. notation on a student’s transcript regarding an academic integrity violation, etc.

## **Students with a Learning Disability**

If a student is registered with the Disability Resource Center, he/she must submit appropriate documentation to the instructor if he/she is requesting reasonable accommodations.

(<http://drc.arizona.edu/drc/accommodations.html>).