

GEORGIA INSTITUTE OF TECHNOLOGY  
School of Physics

PHYS-3232 : Optics I

**General Information**

**Instructor**

Prof. Michael Chapman  
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**Office**

Physics, N010

**Phone**

404-894-5223

**Schedule**

Lec.        Tue. & Thur. 9:05-10:25 pm        L-5, Howey Physics

**Required Textbook:**

Fowles, "Introduction to Modern Optics," 2<sup>nd</sup> edition, (Dover, 1975)

Hecht, Schaum's Outlines in Optics, (McGraw Hill, 1975)

Steck, "Classical and Modern Optics" (you can download this from  
<http://atomoptics.uoregon.edu/~dsteck/teaching/optics/>).

**Other Recommended Books**

Hecht, "Optics," 4<sup>th</sup> edition (Addison Wesley, 2002)

Pedrotti, Pedrotti, and Pedrotti, "Introduction to Optics," 3<sup>rd</sup> edition (Pearson  
Prentice-Hall, 2007)

Meschede, "Optics, Light and Lasers," 2<sup>nd</sup> edition, (Wiley-VCH, 2007)

Google and Wikipedia. O.k., they're not books, but they are very useful and  
they're free.

**Homeworks (20%)**

There will be weekly homework assignments. They will be normally due on Tuesday at 5:00p in box outside C-010. Collaboration policy: you are encouraged to work together and to request help from the TA or myself. However, you must write up the solutions independently.

**Midterm tests (50%)**

There will be 2 in-class midterm tests, Sep. 30 and Nov. 1.

**Final exams (30%)**

There will be a comprehensive final exam during exam week.

**Attendance policy**

Attendance is not required. However, attendance will be taken. You will be allowed to recover up to 50% of your lost points on your midterm tests by correcting your test errors as homework. The maximum amount of points recovered will be linearly prorated by the percentage of lectures attended.