Instructor: Miriam Deutsch  Office: 275 WIL Tel: 6-5973  Email: miriamd@uoregon.edu
Office hours: Tuesday 3-4pm, Thursday 3-4pm or by appointment.

TA: Andrew Cook  Office: 454 WIL Tel: 915-6714  Email: acook1@uoregon.edu
Office hours (room 454): Thursday 2-3 pm, Friday 2-3pm or by appointment

Attendance policy: Attendance is not required, nevertheless recommended. Lectures will cover materials which are mostly in the textbook and follow the order of chapters in the book, but will address different approaches to solving problems, expand on examples in the text and solve problems not necessarily from your book.

Course texts: The required texts are *The Physics of Waves* by H. Georgi and *An Introduction to Thermal Physics* by D. Schroeder.
The first book is available free online at [http://www.people.fas.harvard.edu/~hgeorgi/new.htm](http://www.people.fas.harvard.edu/~hgeorgi/new.htm) For your convenience, I requested the bookstore to print and bind copies for purchasing. All printed copies have sold out. If you would like to purchase a copy you need to request one at the bookstore. It takes 24 hours to get any additional copies printed and bound. The cost is about $35. We will use this book only for the first couple of weeks in the term, to complete the topic of diffraction as well as optics. Then we will move on to thermal physics, and will be using the second textbook for the remainder of the term (as well as for PHYS 353 in Spring 2009.)

Course outline: We will continue with the topic of interference and diffraction, and conclude this section with geometrical optics. We will then move on to thermal physics. We will follow the chapters in the book closely, starting with the first and second laws of thermodynamics and conclude the term with heat engines and refrigerators.

Homework: Homework will be assigned weekly and will be collected the following week. Assignments will be submitted in class directly to me. *Assignments may not be submitted by email unless you are instructed to do so.* Solutions to the homework problems will also be provided. It is important you review them, as they might hold additional information to what we do in class. You should always make an effort to submit your assignments on time. Homework submitted up to 24 hours late will receive 50% credit. Assignments submitted later than that will not be graded and will be recorded as missed. Special circumstances and emergencies may be accommodated on a case-by case basis. In such cases you should contact me as soon as possible to discuss your specific needs.

Course web site: [http://blackboard.uoregon.edu/](http://blackboard.uoregon.edu/) I will post homework assignments, course announcements and handouts. Solutions to homework problems will also be posted. You will need to check regularly for updates.

Exams and Grade determination: There will be two midterm exams as well as a final exam. The first midterm exam will be on January 26, following the completion of the optics section. The second midterm exam will be on March 4 and will test only on thermal physics. The final exam is scheduled
for Tuesday March 17 at 3:15pm, in the usual classroom.
Your grade will be calculated using the following weights:

Homework – 40%
First Midterm Exam – 10%
Second Midterm Exam – 20%
Final exam – 30%

**Students with Disabilities:** If any aspects of the program hinder you from fully participating in this course, please notify me as soon as you become aware of them. You may also contact Disability Services in 164 Oregon Hall, Tel: 346-1155.