PHYS4300/6300 Spring Semester 2010
TR Period 4: 12:30pm - 1:45pm Tuesday and Thursday Room 204B (Physics Conference Room)

Professor Mon, Room 223D
Office Hours:
Monday : 1:15pm - 2:00pm
Wednesday: 1:15pm - 2:00pm
Appointment can be made for other times.
Professor Mon can be reached at 542-3454.
Primary means of communication is to meet with Professor Mon after class or at office hours.
Federal law prohibits discussion of student record without positive identification. This excludes common use of telephone and email.
Attendance is mandatory but no roll will be taken.

There will be two tests and a final exam.
All tests will be closed book and closed notes.
Academic honesty will be strictly enforced.
All students are expected to take the two tests and final exam. The dates will be announced in class.

Excused absence from a test must be documented and the student will take a makeup test.
Students are forbidden to discuss the content of a test til the solutions have been posted.

Grading Policy:
20% of test average + 20% of final exam + 60% of homework = 100%
The letter grade will be assigned as:
A  = 90 to 100
A- = 87 to 89
B+ = 83 to 86
B  = 80 to 82
B- = 73 to 79
C+ = 66 to 72
C  = 56 to 65
D  = 41 to 55
F  = 0 to 40

Standard rounding will be used for the final numerical grade. For example, 89.4999 will be 89 and A-, but 89.5 will be 90 and A.
All withdrawal will be processed in accordance with University policy as stated in the undergraduate bulletin.
For withdrawals before the midpoint, a grade of "W" will be assigned for all cases. Students are expected to attend all classes but no record of attendance will be taken.

The textbook is:

"Thermal Physics"
by Ralph Baierlein (Cambridge, 1999).

Homework assignment:

Frequent homework assignments will be distributed and due at announced date. Late homework will not be accepted and counted as zero. The lowest homework grade will be dropped. Note, homework counts 60% of the total grade. Lecture attendance is mandatory and all homework must be handed in to me in class. Since solving problem is central to learning physics, students must do the homework. Learning from your peer can be valuable and encouraged but plagiarism is forbidden.

To receive credit, students must show that it is their own work by explaining the reasoning for the solution in a neat and legible manner.

Course Schedule:

We will attempt to cover chapters: 1,2,3,5,7,10,12 and 14. It is likely that some chapters/sections will be skipped.

Chapter 1: Background
Chapter 2: The Second Law of Thermodynamics
Chapter 3: Entropy and Efficiency
Chapter 5: The Canonical Probability Distribution
Chapter 7: The Chemical Potential
Chapter 10: The Free Energies
Chapter 12: Phase Equilibrium
Chapter 14: Approaching Zero

The tests will be in Feb and April. The final exam is in May.