# PHYS 515, Thermal and Statistical Physics

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**Prerequisites:** Physics 310 and 344. Coreq: PHYS 330 and 360

**Text:** Required: A*n Introduction to Thermal Physics* by Daniel V. Schroeder
The tests are open textbook so you must have access to a physical copy (not electronic because you can't have open laptop during test); printout of relevant pages are OK as long as they only have info from the book.

**See warning at https://physics.weber.edu/thermal/ about abridged international versions! Beware!!**

Recommended:
*Thermodynamics* by Enrico Fermi (pink Dover not *Thermodynamics & Statistics*)
*Fundamentals of Statistical and Thermal Physics* by F. Reif
*Thermal Physics 2nd Ed.* by C. Kittel and H. Kroemer

**Website:** http://www.physics.purdue.edu/~robichf/class.htm
This site will have the class notes, homework, test dates, solutions, etc. Links to other info as well.

**Homework:** Homework will contain problems from the textbook every week and occasional numerical questions. Homework will be due each Tues before midnight. Homework turned in after I arrive Wed morning will be worth ½ credit. Homework turned in Thurs will be worth ¼ credit. Homework turned in after Thurs will be graded but worth 0 credit. I strongly suggest you not look at the answers before turning in homework. Copying solutions from other students or from the web violates academic honesty.

**Grading:** Homework 20%, 2 Midterms 25% each, Final 30%

**Topics:** See class web page for likely emphasis.