Physics 221-501  Optics and Thermal Physics  Fall 2010
(Special section for physics majors)

Prerequisite: Math 152 or 172; Phys. 208 and 218; registered in math 221 and 308.
Classes:  MWF 1:50 – 2:40 pm, in MPHY 213.
Prof. Chia-Ren Hu,  MPHY 405,  E-mail:  hu@physics.tamu.edu or crhu@tamu.edu
Office Hours:  to be arranged after class starts, or by email appointment.
(If in two volumes, need both vol. I and II. These are easy-to-carry paperback.)
Grading:  Exam I, II, III (=Final):  20% (60 minutes),  20% (60 minutes), 30% (120 minutes)

Homework  15%  (If a competent grader can be hired.)
Quizzes  15%

Assignments:
■  12 (10 min.)-quizzes – lowest 2 scores will be dropped – no make-ups. Quizzes will cover laws, concepts, terminology, etc. from reading assignments. (Date may be changed.)
■  Homework – 12 sets, lowest 2 scores will be dropped – no late homework accepted.

Tentative schedule:  (will be followed unless change is required by circumstances)
Week of:  Chap(s)  Topic

Light and Optics  (quiz on Monday, HW due on Wednesday before class:)
Aug. 30 – Sept. 3  33, 34  Nature and Propagation of Light (no quiz, no HW due)
Sept. 6 – Sept. 10  34  Geometric Optics (quiz 1, HW set 1 due, on Ch. 33.)
Sept. 13 – Sept. 17  34, 35  Interference (quiz 2, HW set 2 due, on Ch. 34.)
Sept. 20 – Sept. 24  35, 36  Diffraction (quiz 3, HW set 3 due, on Ch.35.)

>>> Exam I  Chapters 33-36, Wednesday Oct. 6 (unless changed in class.)
(Oct. 18 --- Mid-semester grades due)

Oscillations and Waves  (Quiz on Monday, HW due on Wednesday before class:)
Oct. 4 – Oct. 8  13  Periodic Motion (no quiz, no HW due)
Oct. 11 – Oct. 15  15  Mechanical Waves (quiz 5. HW set 5 due, on Ch. 13.)
Oct. 18 – Oct. 22  16  Sound and Hearing(quiz 6. HW set 6 due, on Ch. 15.)
Oct. 25 – Oct. 29  16, 17  25th: Chap. 16. 27th: Review. 29th: Ch. 17;
                       (quiz 7, HW set. 7 due, on Ch. 16.)

>>> Exam II  Chapters 13,15,16 Monday, Nov. 1  (Nov. 5 --- last day for Q-drop.)

Thermal Physics (Quiz on Friday, HW due on the next Monday before class:)
Nov. 1 – Nov. 5  17  Temperature and Heat (quiz 8, on Ch. 17)
Nov. 8 – Nov. 12  18  Thermal Properties of Matter (HW set 8 due, on Ch. 17; quiz 9, on Ch. 18.)
Nov.15 – Nov. 19  19  First Law of Thermodynamics (HW set 9, on Ch. 18; quiz 10, on Ch. 19.)
Nov. 22 – Nov. 24  20    Second Law of Thermodynamics (HW set 10 due, on Ch.19; quiz 11 on Nov. 29, on Ch. 20)

(Nov. 25 – 26: Thanksgiving Holiday.) (Continued in the next page)

Nov 29 – Dec. 3  20    ditto (HW set 11 due, on Ch. 20, on Dec. 1; quiz 12 is on Dec. 3, on Ch. 20.)
Dec. 6     Review (HW set 12 due, on Ch. 20.)
(Monday Dec. 6 is redefined day, meet for Friday class.)

>>> Exam III on day of Final: Chapters 17 – 20, Tuesday Dec. 14, 3:30 pm – 5:30 pm
(Dec. 16, final grades due for degree candidates. Dec. 20, all final grades due.)

Americans with Disabilities Act (ADA) Policy Statement:

(Approved by the University Curriculum Committee, March 7, 1997.
Approved by the Graduate Council, March 20, 1997.
Approved by the Faculty Senate, May 12, 1997.)

The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was forwarded to the Faculty Senate for information.

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Room 126 of the Koldus Building or call 845-1637.

Aggie Honor Code:

An Aggie does not lie, cheat, or steal or tolerate those who do.

(See the Honor Council Rules and Procedures on the web: http://www.tamu.edu/aggiehonor.)