

COURSE SYLLABUS - PHYSICS 5306 "Classical Dynamics" FALL 2009

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Lecture: MWF 10:00-10:50 AM in Science 112

Office Hours: MWF 11:00-11:50 AM, and by appointment, Science 35

Textbook: "*Classical Mechanics*" by H. Goldstein, C. Poole & J. Safko, 3rd Ed. (Addison Wesley, 2002, ISBN 0-201-65702-3).

Learning Outcomes: Students should be able to thoroughly understand the concepts and methods of classical dynamics at graduate level. Students are expected to be able to apply key principles to solving problems, both familiar and unfamiliar, in this area of physics.

Outcome assessment: The expected course outcomes will be assessed through homework and exams, as well as in-class discussion. The exams will provide a mixture of relatively familiar and unfamiliar problems, which will test the students' abilities to apply reasoning and math skills based on the conceptual aspects of the material to their solution.

Course website (<http://www.phys.ttu.edu/~huang24/Teaching/>): The site contains homework link, my lecture notes, and other important course information.

Homework: Problems will be assigned from the textbook and other sources. These will be collected and graded. Solving problems and working through derivations is the primary means of learning classical dynamics. You are expected to devote many hours outside of class for every hour in class. You may discuss homework assignments with your classmates or use resources available in the web for help, but you must turn in your own work. Homework is due in my office or mailbox no later than 5 PM on the due day. The penalty for late homework will be 10 points/day.

Examinations: To prepare students for departmental Ph.D. Qualifier Exam (PQE), all exams, including final, will be *closed-book* and will be given *in-class*. The coverage and time will be announced.

Grading Policy: Homework 20%; two exams: 25% each; final exam 30%.

100-86:	A
85-72:	B
71-58:	C
57-44:	D

Disability: Any student, who because of a disabling condition, may require some special arrangements in order to meet course requirements, should contact the instructor as soon as possible so that necessary accommodations can be made. Proper documentation about the disability must be presented from the Dean of Student's office.

Academic dishonesty will not be tolerated and will be treated according to the Student Handbook rules.