

PHYS 201 – Mechanics

Semester: Fall 2006
Instructor: Alper Kiraz
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Office Hours: Tu, B5 15:30 – 16:45 or by appointment
Lecture Hours: Tu, Th B1 – 9:30 – 10:45
Room: Eng. B18

Course Description: Kinematics and dynamics of particles; Newton's laws of motion; conservation laws; oscillations; gravitation; central forces; planetary motion; dynamics of rigid bodies.

Textbook: Classical Dynamics of Particles and Systems, Fifth Edition, Thornton, Marion, 2004 Brooks/Cole. ISBN: 0-534-40896-6

Grading: 1st Midterm 18%, (31 Oct. 2006)
2nd Midterm 18%, (7 Dec. 2006)
Homework 17%
Quizzes 17%
Final 25% (to be announced)

Attendance Policy: If a student attends 90%-100% of the classes s/he obtains 5%, if a student attends 70%-90% of the classes s/he obtains 3%, if a student attends 50%-70% of the classes s/he obtains 1%.

Homework Policy: You may discuss the problems, consult your teachers and use the library and internet. However, the final submitted work should be totally yours. You must not submit work done in groups, transfer files or copy from a book.

Lecture Schedule:

Week		Subject
1	Sep. 18	Matrices, Vectors and Vector Calculus (Ch. 1)
2	Sep. 25	Matrices, Vectors and Vector Calculus (Ch. 1)
3	Oct. 2	Matrices, Vectors and Vector Calculus (Ch. 1) / Newtonian Mechanics-Single Particle (Ch. 2)
4	Oct. 9	Newtonian Mechanics-Single Particle (Ch. 2)
5	Oct. 16	Newtonian Mechanics-Single Particle (Ch. 2)
6	Oct. 30	MT 1 / Oscillations (Ch. 3)
7	Nov. 6	Oscillations (Ch. 3)
8	Nov. 13	Oscillations (Ch. 3)
9	Nov. 20	Gravitation (Ch. 5)
10	Nov. 27	Gravitation (Ch. 5)
11	Dec. 4	Gravitation (Ch. 5) / MT 2
12	Dec. 11	Central-Force Motion (Ch. 8)
13	Dec. 18	Central-Force Motion (Ch. 8)
14	Dec. 25	Central-Force Motion (Ch. 8) / Overview