THE UNIVERSITY OF TEXAS AT EL PASO  
COLLEGE OF SCIENCE  
DEPARTMENT OF PHYSICS  

Course #: PHYS 5321; CRN: 11452  
Course Title: Mechanics  
Credit Hrs: 3  
Term: Fall 2015  
Course Meetings & Location: CRBL 202 at 3:00-4:20 on T,R.  
Prerequisite Courses: PHYS 3352  
Instructor: Tunna Baruah  
Office Location: PSCI 225 B  
Contact Info: Phone # 915-747-7529  
   E-mail address: tbaruah@utep.edu  
   Fax # 915-747-5447  
   Emergency contact:  
   Office Hrs: W 1:00 – 2:00 pm or through appointment.  
Textbook(s): Required: Classical Mechanics – Goldstein, Poole and Safko, 3rd Edition  

Course Objectives (Learning Outcomes): The course will cover chapters 1-9. Topics to be covered are: Mechanics of a single particle and a system of particles, Variational principles, Lagrange’s equations, Two-body central force problem, Kinematics of rigid body motion, Small oscillations, Special Theory of Relativity, Hamilton’s equations of motion, Canonical transformation.  

Course Activities/Assignments:  
There will be two lectures per week. Homework will be assigned regularly but not collected. The students are expected to read the textbook and do the homework.  

Assessment of Course Objectives:  
Grades will be determined from quizzes, two midterms, and the final exam.  
Grading Policy: Quiz (25%), Midterms (25% each), Final (25%).  
Make-up Policy: No make up tests.  
Attendance Policy: None.

Civility Statement: No cell phone, no chatting with classmates, active participation in class activity.

Disability Statement: If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.

Military Statement: If you are a military student with the potential of being called to military service and/or training during the course of the semester, please contact me within the first two weeks of class to arrange in advance for makeup exams, etc.

Course Schedule: Tentative weekly schedule: subject to change depending on course progress

Chap. 1: Week 1
Chap. 2: Week 2, 3
Chap. 3: Week 4, 5
Chap. 4: Week 6
Chap. 5: Week 7, 8
Chap. 6: Week 9
Chap. 7: Week 10
Chap. 8: Week 11, 12
Chap. 9: Week 13, 14
Midterms: Sep. 29, Nov. 3
Final: Dec. 7