

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

Course #: PHYS 5341, CRN 20555
Course Title: Electrodynamics
Credit Hrs: 3
Term: Spring 2014
Course Meetings & Location: PSCI 222A, MW 5:00-6:20 PM
Prerequisite Courses: PHYS 4342, PHYS 4341 or equivalent undergraduate E&M, MATH 2326
Course Fee: (if applicable)
Instructor: Dr. Chunqiang Li
Office Location: PSCI 221E
Contact Info: Phone #: 7537
E-mail address: cli@utep.edu
Fax #
Emergency Contact
Office Hrs: M 11-12
Textbook(s), Materials: Required: Classical Electrodynamics, 3rd ed., J. D. Jackson
Suggested:

Course Objectives (Learning Outcomes): Develop an understanding and attain knowledge of classical electrodynamics fundamentals. Gain skills and abilities to apply fundamental laws in electromagnetism to natural science or engineering situations. Get on to solve problems analytically and numerically.
Course Activities/Assignments: Course activities include reading assignment, lectures, homeworks, one midterm exam, and a final exam.
Assessment of Course Objectives: Outcomes will be measured by exams.
Grading Policy: Grades will be assigned on a standard scale:
Grades will be calculated using the following weights:
Midterm Exam 40%; Final Exam 60%.
Make-up Policy: No credit will be given to missed homework. Attendance at exam is mandatory. Make-up exams can be arranged at the discretion of the instructor. A written excuse will be necessary for rescheduling an exam.
Attendance Policy: Attendance in class is the responsibility of the students. If class is missed, you are responsible for obtaining the notes from another student or from the instructor.
Academic Integrity Policy: Acts of academic dishonesty will not be tolerated in this class. Lapses in academic integrity will be referred to the Dean of Students, as required at <http://academics.utep.edu/Default.aspx?tabid=23785>.
Civility Statement: This course requires positive behaviors: Be on time and be focused on your work. Please do not distract yourself or others with telephones or music.

Disability Statement: If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Center for Accommodations and Support Services (747-5148 or cass@utep.edu). or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any CASS 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, you are encouraged to contact me as soon as it appears that your service will interfere with this course. The instructor will work with you to ensure that your service will not adversely affect your academic progress.

Course Schedule: Tentative List of Topics

1. Electrostatic boundary value problems
2. Multipoles, electrostatics of macroscopic media
3. Magnetostatics
4. Maxwell's Equations
5. Electromagnetic waves