

ELECTROMAGNETICS I

PHYS 4341 (CRN: 29511; SPRING 2020) Independent Study

Lectures: Mainly assignments and reading material distributed through BB.

Term: Jan 21, 2020 - May 07, 2020

Instructor: Hari Nair (hnair@utep.edu #PSCI 223 C, Ph: 7544)

Office hours: T/TR 10:00 – 11:00, W 9:00 – 10:00

Course objectives: PHYS 4341 is an undergraduate physics course at the junior or senior level for advanced concepts in electromagnetism. The course objective is to discuss the following chapters from the prescribed main textbook. 1) Vector analysis; 2) Electrostatics; 3) Special techniques; 4) Electric fields in matter; 5) Magnetostatics; 6) Magnetic fields in matter.

Main textbook: *Introduction to Electrodynamics*, David J. Griffiths (Third or Fourth Edition).

Grading policy: For this independent study, evaluation will be based on completion of assignments and quizzes posted on BB. An 80% total score leads to the letter grade A, a score in the range 70-80% is B, 60-70% is C.

Disability and military statements: If you have a disability please contact Center for Accommodations and Support Services (CASS) *ph:* 747-5148, *email:* cass@utep.edu. *Office:* Union East Building, Room 106. Without CASS documentation, no accommodations can be made. Please take care of this before the first exam. If you are a military student with the potential of being called to military service and/or training during the semester, you are encouraged to contact the instructor at the beginning of the semester.

Academic Integrity policy

<https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>