

ELECTROMAGNETICS II

PHYS 4342 CRN 21510 SPRING 2023

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

Office hours: by appointment

Scheduled Meeting Times							
Type	Time	Days	Where	Date Range	Schedule Type	Instructors	Description Text
Class	10:30 am - 11:50 am	TR	Health Science/School of NURS 213	Jan 17, 2023 - May 04, 2023	Lecture (LECT)	Harikrishnan Nair	Electromagnetics II

MIDTERM EXAM: MARCH 15th

FINAL EXAM: MAY 9th, 1:00 pm - 3:45 pm

[Final Examination Schedule.docx \(utep.edu\)](#)

The textbook prescribed for this course is *Introduction to Electrodynamics 3rd or 4th ed* by David J. Griffiths (DJG). PHYS 4342 is the second part of a sequence of advanced undergraduate physics courses at the junior or senior level for advanced concepts in electromagnetism. Electromagnetics I (PHYS 4341) is a prerequisite. The objective of the course is to provide an in-depth understanding of the following chapters from the prescribed textbook: 1) Review of important concepts of PHYS 4341 (optional), 2) Ch 7 Electrodynamics, 3) Ch 8 Conservation laws, 4) Ch 9 Electromagnetic waves, 5) Ch 10 Potential and fields, 6) Ch 11 Radiation, 7) Ch 12 Electrodynamics and relativity

Grading policy: Total score (100 %) = Midterm exam (30%) + Final exam (40%) + in-class performance, quizzes, and homework assignments (30%). The final exam will be comprehensive of all chapters covered in class lectures. Letter grades are assigned as follows: score > 90% = A, 89-80% = B, 79-60% = C, 59-50% = D, < 49% = F.

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. 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>