

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

Course #: PHYS 2421, CRN 36008  
Course Title: Introductory Electromagnetism  
Credit Hrs: 4  
Term: Summer II 2019  
Course Meetings & Location: College of Business Admin 323, MTWRF 9:20 - 11:30 am  
Associated Course: Lab & Workshop  
Prerequisite Courses: PHYS 2420  
Course Fee: (if applicable)  
Instructor: Dr. Huiyan Yang  
Office Location: PSCI 215 B  
Contact Info: Phone #: 7510  
E-mail address: hyang4@utep.edu  
Fax #: 915-747-5447  
Emergency Contact #: 915-747-5536  
Office Hrs: MW 1:00 - 2:00 pm or by appointment  
Textbook(s), Materials: Required: Physics for Scientists and Engineers: A Strategic Approach, 4<sup>th</sup> Edition, by Randall D. Knight.  
Course Objectives (Learning Outcomes): This semester you will be learning about the AMAZING world of electricity and magnetism and it all revolves around the physical property known as “charge”. A simple way to think about EVERYTHING you will learn in this course is that you will learn about 1) stationary charges, 2) flowing charges (moving together with more or less constant velocity), and 3) accelerating charges.  
Course Activities/Assignments: Course activities include lectures, homework, tests, three midterm exams, and a final exam.  
Assessment of Course Objectives: Outcomes will be measured by exams and other assignments.  
Grading Policy: 30% Final Exam (comprehensive)  
30% Three Midterm Exams  
10% Blackboard Tests  
10% Workshop Quizzes  
20% Lab  
Test and Quiz Policy: Written quiz is given at workshop and online test is given on blackboard. Classroom quiz is given by using iClicker Cloud and counts for 5% extra credit for the final grade. There is no makeup for missed quiz or test. The worst quiz or test score will be dropped off.  
Exam Make-up Policy: No makeup exam is given. The worst midterm exam will be dropped off. The final exam is mandatory. The student loses 30% credit if the final exam is missed. Bring a calculator; cell phones are not allowed.

- Attendance Policy: Two extra points are given for the final grade for attendance. 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](mailto: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 and Exam Dates
1. Electric charges and forces
  2. The electric field
  3. Gauss's law
  4. The electric potential
  5. Potential and field
  6. Current and resistance
  7. Fundamentals of circuits
  8. The magnetic field
  9. Electromagnetic inductance
  10. AC Circuits
- Exam I: July 16<sup>th</sup>, Tuesday, class time  
Exam II: July 23<sup>rd</sup>, Tuesday, class time  
Exam III: July 30<sup>th</sup>, Tuesday, class time  
Final Exam: TBA

**Important Dates**

**July 11<sup>th</sup> Summer II Census Day**

**July 26<sup>th</sup> Summer II Drop/Withdrawal Deadline**