

PHYS 1404 – General Physics II, Spring 2017 - CRN 21001

TR 4:30 – 5:50 PM, LART 308

Instructor: Jorge A. López

Coordinates: Office: PSCI 311, Tel.: 747-7528, e-address: jorgelopez@utep.edu

Office hours: Without appointment: TR 12:00 - 3:00 PM

With appointment: MW 1:00 - 4:00

Prerequisite Courses: PHYS 1403 or Instructor approval

Textbook and materials needed:

- College Physics, Knight, Jones, Field, 3rd Ed.
- Scientific calculator (no phone or tablet like calculators)
- Green scantron sheets for quizzes

Learning outcomes and objectives: General Physics II is the second part of a sequence of two algebra-based introductory physics courses whose main two objectives are to provide students with a rigorous description of electricity and magnetism and geometric optics and to improve student's problem-solving abilities.

Activities: Class will be composed of two 1.5-hour weekly lectures with the instructor, and a 2-hour weekly laboratory.

Objectives: Topics to be covered are shown in the list below. The pace will be about 1.5 chapters per week.

- Ch. 20: Electric fields and forces
- Ch. 21: Electric potential
- Ch. 22: Current and resistance
- Ch. 23: Circuits
- Ch. 24: Magnetic fields and forces
- Ch. 25: EM Induction and EM waves
- Ch. 26: AC electricity
- Ch. 17: Wave optics
- Ch. 18: Ray optics

Assessment of Course: Assessment will be through weekly quizzes (MCAT style), a final exam and the laboratory grade. Grade corrections of individual quizzes should be made within a week of receiving them, no grade changes of individual quizzes will be allowed after the end of the semester. Grade distribution:

- Weekly quizzes (lowest two grades to be dropped) 65%
- Final exam 20%
- Laboratory 15%

Quizzes and Homework: Homework problems will be assigned but not collected nor graded, but solutions will be discussed in class and posted on Blackboard. Weekly quizzes based on the homework of the previous week will be given every Thursday in the last 20 minutes of class. The use of a formula sheet is allowed, the formula sheet will be provided ahead of time through Blackboard, and students are responsible for downloading it and printing it, please do not add any material to it. The lowest two quiz grades will be

dropped and there will be no make-ups. Students must bring scantron sheets for the quizzes.

Laboratory: Attending the Laboratory is mandatory and the lab grade will count 15% of your total grade. **You must approve the lab with a minimum of 60% in order to approve the class.**

Final Exam: There will one comprehensive final exam based on the weekly quizzes. Students must bring scantron sheets for the final exam.

Make-up Policy: There will be no make-up quizzes. Instead of make-ups, the lowest two quiz grades will be dropped. If more than two quizzes are missed, make-up quizzes will be given in cases of approved excuses (medical emergencies, personal situation, military duties, etc., all with written evidence). Make-up policy for the laboratory will be given by the lab instructor. There will be no make-ups for the final exam.

Attendance Policy: Attendance is not taken into account for the grade, but not attending the class will result in missing quizzes.

Academic Integrity Policy: Any student who commits an act of academic dishonesty is subject to discipline. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures, and available on the homepage of the Dean of Students at <http://sa.utep.edu/studentlife/>, may result in sanctions ranging from disciplinary probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.

Civility Statement: During class, please do not eat, sleep or read newspapers or any other material not related to class. Turn off cell phones, ipods, and any other devices which might disturb class. Use computers and tablets only for class purposes, and do not talk excessively (definition of “excessive” is up to the instructor).

Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Military Statement: Students being called for military duties need to contact the instructor as soon as possible.

Drop deadline: The College of Science will not accept any requests for class drops after the deadline.

TENTATIVE CALENDAR

WEEK	CONTENT	OBSERVATIONS	QUIZ/EXAM
1/15 – 19	Intro + 20.1 – 20.3	Th 1/18 Online lecture	No quiz on first week
1/22 - 26	20.4 – 20.7		1: 20.1 – 20.3, Tu 1/24
1/29 – 2/2	21.1 – 21.4		2: 20.4 – 20.7
2/5 – 9	21.5 – 21.8		3: 21.1 – 21.4
2/12 – 16	22.1 – 22.6		4: 21.5 – 21.8
2/19 – 23	23.1 – 23.4		5: 22.1 – 22.6
2/26 – 3/2	23.5 – 23.8		6: 23.1 – 23.4
3/5 – 9	24.1 – 24.4		7: 23.5 – 23.8
3/12 – 16	24.5 – 24.8	Spring Break	
3/19 – 23	25.1 – 25.4		8: 24.1 – 24.4
3/26 – 30	25.5 – 25.7	Drop deadline: 3/30	9: 24.5 – 24.8
4/2 – 6	26.1 – 26.4		10: 25.1 – 25.4
4/9 – 13	26.5 – 26.7		11: 25.5 – 25.7
4/16 – 20	17.1 – 17.4		12: 26.1 – 26.4
4/23 – 27	17.5-17.7, 18.1 – 18.2		
4/30 – 4	18.3 – 18.7	May 4 Dead Day	
5/7 – 11		Final exam	Tu, May 8, 4:00– 6:45

iClicker Polling

We will be using iClicker Polling in class to grade multiples choice questions. You will need to create a iClicker Polling student using your laptop, smart phone, or tablet connected to the university's Wi-Fi (UTEPSECURE) or to your mobile data plan.

Grading: There will be about 100 questions in the semester. All questions will be worth up to 10 quiz points; these points will be added to the final quiz grade at the end of the semester, but it will not exceed the maximum of 65 points for quizzes.

Creating Your iClicker Polling Account: Students who do not have an existing iClicker account, need to go to <https://www.iclicker.com/students> or using your smartphone download the iClicker Polling app from the App Store or Google Play to sign up for a iClicker Polling account. iPad users need to change the search to iPhone App. You should **use your username@miners.utep.edu email address** when creating your account. If you need to change your email address, or password, edit your account profile. Do ***not*** create and use more than one iClicker Polling account as you will only receive credit from a single account. When asked to register a remote device, **choose not at this time**. You do not need to purchase a subscription to use REEF Polling as it is provided to you for free.

Add PHYS 1404 to your iClicker Account: Search by Institution (UTEP) and add course: PHYS 1404.

Cheating: submitting votes for another student is a violation of the University Honor Code. If you are caught voting for another student you will face disciplinary action. Also please participate in the iClicker polls only while in class, answering questions while not present in class may lead to a dismissal of all of your iClicker points.