

## PHYS 1404 – General Physics II, Fall 2018 - CRN 13149

TR 3:00 – 4:30 PM, LART 304

**Instructor:** Jorge A. López

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

**Office hours:** TR 12:00-1:00, MW 11:00-2:30 and by appointment.

**Prerequisite Courses:** PHYS 1403 or Instructor approval

### **Textbook and materials needed:**

- College Physics, Knight, Jones, Field, 3<sup>rd</sup> Ed.
- Scientific calculator (no phone or tablet like calculators)
- Green scantron sheets for quizzes and final exam

**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 distribution:**

- Weekly quizzes 60%
- In-class questions (iClicker) 5%
- Comprehensive final exam 20%
- Laboratory 15%

**Homework:** Homework problems will be assigned but not collected nor graded, but solutions will be discussed in class and posted on Blackboard.

**Quizzes:** 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. 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 course.

**Final exam:** There will one comprehensive final exam based on the weekly quizzes.

**In-class questions.** We will use the iClicker response system, please:

- 1) Register at <https://www.iclicker.com/> and sign up for PHYS 1404.
- 2) Login into your Blackboard and click on the icon



### **iClicker**

Dear students, please click [this link](#) to launch a special instance of iClicker, then log in or create a new iClicker account if you don't already have one. Signing into iClicker REEF through [this link](#) will allow me to synchronize your iClicker REEF scores with this Blackboard course.

To participate **you have to be present in class.** Please do not login if you are not physically in the classroom, answering from a remote location will result in the loss of all previously earned points.

### **Make-up policy:**

**Quizzes.** There will not be make-up quizzes, instead, the lowest two quiz grades will be dropped automatically. Exceptions will be made if you miss more than two quizzes and have a valid excuse (medical emergencies, personal situation, military duties, etc., all with written evidence) for all absences. Please do not request make up quizzes or submit absence justifications unless you miss more than two quizzes.

**Lab.** Make-up policy for the laboratory will be given by the lab instructor.

**Final.** 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](mailto: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](http://www.sa.utep.edu/cass).

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

### TENTATIVE CALENDAR

WEEK	CONTENT	OBSERVATIONS	QUIZ
8/27-31	Intro + Ch. 20.1 - 2		No quiz on first week
9/3-7	Ch. 20.3 – 6	Monday is a Holiday	Ch. 20.1 - 2
9/10-14	Ch. 20.7/Ch. 21.1 – 2		Ch. 20.3 – 6
9/17-21	Ch. 21.3 - 6		Ch. 20.7/Ch. 21.1 – 2
9/24-28	Ch. 21.7 - 8/Ch. 22.1-3		Ch. 21.3 - 6
10/1-5	Ch. 22.4 - 5/Ch. 23.1-2		Ch. 21.7 - 8/Ch. 22.1-3
10/8-12	Ch. 23.3 – 6		Ch. 22.4 - 5/Ch. 23.1-2
10/15-19	Ch. 23.7/Ch. 24.1 – 3		Ch. 23.3 – 6
10/22-26	Ch. 24.4 - 7		Ch. 23.7/Ch. 24.1 – 3
10/29-11/2	Ch. 25.1 – 4		Ch. 24.4 - 7
11/5-9	Ch. 25.5,7/Ch.26.1 – 3	Drop deadline: 11/2	Ch. 25.1 – 4
11/12-16	Ch. 26.4 – 7		Ch. 25.5,7/Ch.26.1 – 3
11/19-23	Ch. 17.1 – 4	Thanksgiving 11/22-23	No quiz
11/26-30	Ch. 17.5/Ch. 18.1		Ch. 17.1 – 4
12/3-7	Ch. 18.2-3	12/7 is dead day	Ch. 17.5/Ch. 18.1-3
12/10-14	Ch. 18.4-7	Final exam: Thursday, Dec. 13, 4:00 – 6:45 pm	