COURSE TITLE/SECTION: Physics 1302 College Physics II (previously Introductory General Physics II)/Class Number ####

TIME: Time and Days LOCATION: Classroom #

FACULTY: Instructor name OFFICE HOURS: Times and location/connection info

E-mail: Instructor email Phone: (713) 743- ####

Physics 1302 College Physics II (previously Introductory General Physics II)

Catalog Description: Second semester of a two-part non-calculus-based course covering thermodynamics, electricity, magnetism, electromagnetic waves, optics, and modern physics.

Primarily for majors other than physics and engineering. Credit may not be applied toward a degree for both Phys 1302 and University Physics II, Phys 2326 (previously 1322).

Prerequisites: Phys 1301

Course Structure:

Computer and internet access are required for this course.

Canvas, Expert TA, Microsoft Teams and possibly other online resources will be required for this course. Students may also be required to send scans of paper documents (i.e. using a smart phone with camera or scanner).

Expert TA is required and may be purchased through the UH bookstore, or standalone access can be purchased directly from the website https://theexpertta.com/.

Expert TA information, Teams connection information, and other relevant information specific to your course here.

Textbook

College Physics, available for free here: https://openstax.org/details/books/college-physics. (A printed copy can be purchased from the bookstore or directly from the website if desired.)

Course Requirements:

A. (OPTIONAL) **Warm up Assignments:** Reading quizzes covering the material from the reading assignment, consisting of 2-3 questions/problems, will be assigned online. The quizzes will be available at least 24 hours before they are due, and they will be due by the beginning of the lecture time. There will be a time limit for taking the quiz and you
will be allowed 2 attempts for each quiz. Solutions for the quizzes will be discussed during the lecture and will be posted on the class website.

B. Homework Assignments: Homework will be completed online using Expert TA. Ten or more homework problems will be assigned at the beginning of each chapter and will be due approximately one week from that date.

C. Exams: There will be three regular exams. Regular exams will cover 3-5 chapters each. There will also be a longer final exam which will be comprehensive, covering all the material in the course. The exams will be administered by CASA. Exams will be offered for 4 days, which may include weekends. You must sign up for an exam time in advance. You can log onto the CASA website https://ccs.casa.uh.edu with your Cougarnet credentials to schedule your exams.

D. Teamwork Component: A teamwork component will be evaluated in this course. Instructors: This is a required component of the course. Choose one of these examples or use some other form of teamwork.
   a. Concept tests will be administered during lecture. Students will discuss these questions in teams as a method of peer instruction.
   b. Teams consisting will be assigned to create a study guide for each of the exams for the course. The study guides will be posted in Blackboard and students will be able to choose the study guide which is best for use to prepare for the exam. Each group will have to work together to determine what will be included on the study guide and the best format for presenting it to the students.
   c. Other?

E. Student Success Program/Recitation Sessions: This course will include recitation study groups. Recitation sessions are held for one hour each week and begin the third week of classes. These sessions provide the opportunity to participate in problem-solving activities designed to enhance your understanding and mastery of the course content. All students are invited to attend. It is HIGHLY RECOMMENDED that students who earned below a B in Phys 1301 attend recitations. Any student scoring below the departmental average on the 1st Regular Exam in this course MUST attend one recitation each week for the remainder of the semester. For these students, recitations will count for 50% of the Teamwork/Attendance component grade. Recitation attendance will be graded as the percentage of required recitation sessions attended. Students must arrive on time, stay for the entire session, and record their attendance.

Grading:

10% Teamwork/Attendance
8% Discretionary – Could count for reading quizzes, more towards exams, etc. However, this percentage cannot be put towards Homework
10% Homework
18% Regular Exam I
18% Regular Exam II
18% Regular Exam III
18% Final Exam

Academic Honesty: It is each student’s responsibility to read and understand the Academic Honesty Policy found at http://www.uh.edu/academic-honesty-undergraduate.

The following rules apply to all exams for this class:
• Do not communicate about the exam with anyone (other than your instructor or CASA staff) from the time that the first student takes the exam until 48 hours after the last student takes the exam.

• Do not post information about the exam at any time (while you are taking it or afterward) on a website or any other forum where other people can find the information.

• Do not make or save a record of the exam questions. This includes screenshots, pictures, video, copying and pasting the text, etc.

• Do not use any electronic devices while taking the exam other than the computer you are using to take the exam and your calculator.

• While you are taking the exam, you may not have any other applications open on your computer.

• Do not consult any outside resources such as books, notes, or websites while taking the exam.

• Do not search for or view exam questions that have been posted to websites, including but not limited to Chegg or Course Hero. Viewing exam questions on these websites while the exam is ongoing will be considered an act of academic dishonesty.

Academic Honesty proceedings may be initiated against any student who violates these rules.

Course Objectives:
The objective of this course is to learn the principles of electromagnetism and modern physics.

Upon completion of this course, students will be able to:

1. comprehend and apply laws such as Gauss’ law, Coulomb’ laws and Kirchoff’s law;
2. be able to apply basic physics laws to solve real life problems;
3. to develop the processes of logical thinking and reasoning.

Other learning outcomes include:

1. Students completing this course will be able to convey knowledge of the basics principles of physics and be able to use these principles to solve elementary problems.
2. Students will be able to take a real-life problem and use physical principles and basic mathematical tools to describe the problem.
3. Student will have the ability to communicate orally and in writing in a clear concise manner the concepts of Physics.

Course Content:
This course will cover Chapters 18-31, 13-15 which include the following topical areas:

1. Electric Charge, Forces and Fields
2. Electric Potential and Potential Energy
3. Electric Current and DC Circuits
4. Magnetism and Faraday’s law
5. Electromagnetic Waves
6. Optics
7. Quantum and Atomic Physics
8. Thermal Physics
Tutoring and Additional Resources: See [https://uh.edu/nsm/physics/undergraduate/intro-course-info/](https://uh.edu/nsm/physics/undergraduate/intro-course-info/).

Policy on grades of I (Incomplete): The temporary grade of I (incomplete) is a conditional and temporary grade given when students (a) are currently passing a course or (b) still have a reasonable chance of passing in the judgment of the instructor, but for non-academic reasons beyond their control have not completed a relatively small part of all requirements. Incompletes will be given only when documentation has been submitted to support the need to receive an incomplete, i.e., medical statements.

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS ([www.uh.edu/caps](http://www.uh.edu/caps)) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. Also, there is no appointment necessary for the “Let's Talk” program, which is a drop-in consultation service at convenient locations and hours around campus. [https://uh.edu/caps/outreach/lets-talk/](https://uh.edu/caps/outreach/lets-talk/).

COVID-19 Information
Students are encouraged to visit the University’s [COVID-19](https://uh.edu/covid-19) website for important information including diagnosis and symptom protocols, testing, vaccine information, and post-exposure guidance. Please check the website throughout the semester for updates. Consult the ([select: Undergraduate Excused Absence Policy or Graduate Excused Absence Policy](https://uh.edu/excused-absence-policy)) for information regarding excused absences due to medical reasons.

Reasonable Academic Adjustments/Auxiliary Aids
The University of Houston complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for disabled students. In accordance with Section 504 and ADA guidelines, UH strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please contact the [Justin Dart Jr. Student Accessibility Center](https://uh.edu/accessibility/) (formerly the Justin Dart, Jr. Center for Students with DisABILITIES).

Excused Absence Policy
Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston [Undergraduate Excused Absence Policy](https://uh.edu/excused-absence-policy) and [Graduate Excused Absence Policy](https://uh.edu/excused-absence-policy) for reasons including: medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to [military service, religious holy days, pregnancy and related conditions](https://uh.edu/excused-absence-policy), and [disability](https://uh.edu/accessibility/).

Recording of Class
Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the [Justin Dart, Jr. Student Accessibility Center](https://uh.edu/accessibility/). If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this
course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor’s recordings for their own studying and notetaking. Instructor’s recordings are not authorized to be shared with anyone without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.