Welcome Statement

Welcome to University Physics II Web Version, an online physics course that makes use of a digital physics textbook that you will purchase online. This course is a calculus-based physics course designed for science majors in fields such as physics, computer science and engineering. Topics include: electric fields, AC and DC currents, dielectrics, magnetic fields, magnetic properties of matter, inductance, electromagnetism, properties of waves and optics, relativity, and modern physics.

To ensure your success in this course, please be sure you meet the minimum prerequisites. They are

1. MATH 2414 (Calculus II) and PHYS 2425 within the last five years with a C or better.

This prerequisite course must be completed BEFORE you enroll in this course. You must also register for a laboratory section for this course. Physics can be a difficult subject to master because it encompasses a blend of concepts explaining how our natural world works expressed through the language of mathematics. It is essential that you have the appropriate math skills for this course. The primary reason most students have difficulty in this course is due to a lack of math skills. An additional challenge to this summer course is that it must be completed in only 5 weeks! Students should plan to spend several hours each day completing the substantial amount of course assignments.

Course Timeline

The following timeline is provided to serve as a guide for this course.

Step 1 – Register for this course
Step 2 – Immediately notify Professor Brooks (mbrooks@collin.edu). I will send you important information regarding this course to get you started.
Step 3 – Once the semester begins, all class communication will occur within your course Canvas communication tools (email, discussion forum, etc). Until the course begins, you may use your personal email.
Step 4 – Purchase your digital physics textbook and virtual physics labs following the instructions in the syllabus (more textbook info is included below).
Step 5 – Set up your online assignment account following the instructions in the syllabus (more assignment info is included below).
Step 6 – Upon the first day of class, access your Canvas account for this course through CougarWeb. All class communication and course information will be provided through Canvas.
Step 7 – Read through all course materials and instructions given on the Canvas course website. Begin reading through the digital physics textbook and complete assignments.
Step 8 – You should frequently check the Canvas course website for class announcements and discussions. If you have homework questions, post them on the discussion board. By posting your questions on the Canvas course website, everyone in class can benefit.
Step 9 – The Final Exam is comprehensive and is the only exam given in this course. The final exam will be given on-campus at the PRESTON RIDGE CAMPUS Testing Center in Founders Hall (room F209).

Class Format

This a distance learning course in which you will be instructed through interaction with your digital physics textbook. Other than labs, there are no in-class meetings for this course. Any questions you have regarding course material, assignments, tests, etc, will be addressed by using the communication tools outlined below.

Textbook

Online courses present unique challenges and require you as a student to make an extra effort to read the course materials and complete all assignments. The instruction for this course comes from you reading through the digital textbook developed by Kinetic Books. The digital textbook used for this course is a unique blend of textual information, interactive animations, multimedia content, and interactive examples. The course assignments will be completed online and cannot be completed without purchasing the digital textbook.

You should purchase your digital textbook immediately upon enrolling in this course. The digital textbook can be accessed via CD or online from the Kinetic Books website. Digital textbooks are purchased at the Kinetic Books online store via credit card at:

Kinetic Books Store

Refer to the syllabus for detailed instructions on how to order your digital physics textbook.
**Assignments**

Your assignments for this class consists of the following components:

1. Homework problems which you will complete online via the Kinetic Books website
2. Physics Video Worksheets which you will complete as you watch the Mechanical Universe physics video series
3. A "Physics of Technology" project

See the COURSE SYLLABUS for assignment details.

**Labs**

Enrollment in this course automatically includes registration in a special laboratory section that meets only once per week at the Preston Ridge Campus. One-half of the lab activities will consist of simulations that you will access and complete online. More information is available in the course syllabus and the “Lab Information” page.

**Class Communications**

Communication with your instructor and peers is vitally important in this class, especially in regards to completing assignments. All communication for this course will be handled through Canvas via the communication tools available through this course website. You are expected to interact with this class site on a regular basis (that means at least once a week, if not more frequently). I will usually reply to emails or discussion questions the same or next day.

The Canvas communications tools and how you may use them are outlined below:

- **Mail**
  Use only the Canvas Mail tool in this course to communicate with your instructor.

- **Discussions**
  The Canvas discussion tool is a great place to post assignment questions so that everyone in class may follow the discussion/solution. I will reply to assignment questions in the discussion forum. When you have assignment questions, check the discussion forum first to see if an answer to your question has already been posted.