

**COLLIN COUNTY COMMUNITY COLLEGE DISTRICT
COURSE SYLLABUS - Lecture**

COURSE NUMBER: PHYS 2426

COURSE TITLE: University Physics II

CREDIT HRS: 4 **LECTURE HRS:** 3 **LAB HRS:** 3

PREREQUISITE: PHYS 2425 and MATH 2414 within the last five years with a C or better

COREQUISITE: Lab

COURSE DESCRIPTION:

Addresses electric fields, AC and DC currents, dielectrics, magnetic fields, magnetic properties of matter, inductance, electromagnetism, properties of waves, and optics. Lab required.

MEASURABLE STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Use the basic SI units of measurement in problem solving
2. Solve problems involving the theoretical derivation of relationships and equations using calculus
3. Solve problems in electricity and magnetism
4. Solve problems involving the relationship between electricity and magnetism using Maxwell's equations
5. Analyze and solve problems involving light
6. Analyze and solve problems using Einstein's Special Theory of Relativity
7. Solve problems involving the basic principles of photons and matter waves
8. Apply concepts from classical mechanics to topics covered in this course
9. Demonstrate the proper collection, analysis, and reporting of scientific data

COURSE REQUIREMENTS:

Complete lecture and lab activities

COLLEGE REPEAT POLICY:

A student may repeat this course only once after receiving a grade, including “W.”

ATTENDANCE POLICY:

May vary by instructor. See the current *Collin Registration Guide* for the last day to withdraw.

RELIGIOUS HOLY DAYS:

Please refer to the current *Collin Student Handbook*.

ADA STATEMENT:

It is the policy of Collin County Community College to provide reasonable and appropriate accommodations for individuals with documented disabilities. This College will adhere to all applicable Federal and State laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS Office (G-200) or 972.881.5898, (TDD- 972.881.5950) in a timely manner if he/she desires to arrange for accommodations.

ACADEMIC ETHICS:

The college may initiate disciplinary proceedings against a student accused of scholastic dishonesty. Scholastic dishonesty includes, but is not limited to, statements, acts, or omissions related to applications for enrollment or the award of a degree, and/or the submission of material as one’s own work that is not one’s own. Scholastic dishonesty may involve one or more of the following acts: cheating, plagiarism, collusion, and/or falsifying academic records.

CHEATING:

Is willful giving or receiving of information in an unauthorized manner during an examination, illicitly obtaining examination questions in advance, using someone else’s work for assignments as if it were one’s own, copying computer disks or files, and any other dishonest means of attempting to fulfill the requirements of a course.

PLAGIARISM:

Is the use of an author’s words or ideas as if they were one’s own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation. Contact the Dean of Students at 972.881.5771, for the student disciplinary process and procedures or consult the CCCCD Student Handbook.

COLLUSION:

Is intentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate during an examination; removing tests or answers from a test site, and allowing a classmate to copy answers.