

CUMBERLAND COUNTY COLLEGE

Course: IT 110 Electronics I

Credits: 4

Prerequisites: None

Description:

A fundamental electronics course which defines current, voltage and power, and their applications to resistive, capacitive and inductive circuits. Series, parallel and network circuits are studied. Laboratory exercises will combine classroom theory with practical applications.

Learning Outcomes:

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

- Determine the equivalent resistance of a resistor network
- Determine the equivalent capacitance of a capacitor network
- Recognize AC and DC circuits
- Employ Voltmeter and Ammeter
- Define electric current and potential difference
- Follow instructions to complete a laboratory experiment

Topical Outline:

- Electric Current
- Electric potential difference
- Resistors, capacitors, and inductors
- Series and parallel networks
- Power
- AC and DC circuits

Text:

Electronics Fundamentals, Floyd, Prentice Hall publications

Student Assessment:

Assessment is accomplished through homework, Laboratory performance, and exams as follows:

Homework Assignments	20%
Laboratory performance	25%
Two mid-semester exams	30%
Final exam	25%

Academic Integrity:

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist:

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

**Before Withdrawing From This Course:**

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) **BEFORE** withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA, which can limit or eliminate future financial aid in addition to causing academic suspension.