

Instructor: Terry Adair

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Class Hours

Section	Day/Time	Room
1240 Lecture	Tuesday 6-7:30 pm	1453, Bussman Hall
1240 Lab	Thursday 6-9:30 pm	1452, Bussman Hall
Office Hours	Tuesday 5:20-6:00 pm	1452, Bussman Hall
Email contact with instructor-- response within 48hrs		

Course Description

Introduction to electronic components and underlying physics concepts, electrical units, direct current (DC), DC circuit analysis, batteries, magnetism, meters, alternating current (AC), capacitance, inductance, transformers, and AC circuit analysis.

Student Learning Outcomes:

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

1. Identify and describe the characteristics of common electronic components.
2. Analyze the characteristics of typical DC and AC circuits.
3. Use algebra and right angle trigonometry to solve electronic circuit calculations.

Required Textbook and Lab Manual

- **Contemporary Electronics: Fundamentals, Devices, Circuits, and Systems** by Louis E. Frenzel
Hardcover: 848 pages
Publisher: McGraw-Hill Education; 1 edition (February 11, 2013)
ISBN-10: 007337380X
ISBN-13: 978-0073373805
- **Experiments Manual for Contemporary Electronics 1st Edition** by Louis E. Frenzel
Paperback: 128 pages
Publisher: McGraw-Hill Education; 1 edition (March 27, 2013)
ISBN-10: 0077520874
ISBN-13: 978-0077520878

Technical Requirements

You will need to have access to a computer to type your lab reports and access the course website. The course website on Canvas contains the information and resources for the course. You may use a laptop or tablet to take notes as long as it does not become a distraction.

Required Materials

1. Scientific Calculator
2. Engineering Paper
3. Small Straight Edge
4. Pencil, Eraser

Grading Policy

The grading values and assignment weights are listed below:

Grade Values

90 -100	A
80-89	B
70-79	C
55-69	D
Less than 55	F

Assignment Weights

Homework	30%
Quizzes	20%
Hands-On Test	10%
Lab Reports	30%
Final Exam	10%

LAB Assignment Weights

Schematic	20%
Data/Formulas(Calcs)	40%
Observations/Conclusion	30%
<u>Neatness/Organization</u>	<u>10%</u>
Total	100%

Quizzes and Exams

The quizzes will be open book/notes. The final exam will be comprehensive. You may bring one 8.5x11 page of notes (both sides) to be submitted with your test (you'll get it back).

Homework Grades

Assignments must be submitted no later than one week after the due date. You will receive credit for submitting your completed homework on time and in the correct format. I will not correct your assignments. One week after the due date for each homework assignment I will post the Answer Key in the Getting Started section of the Canvas course site. It is your responsibility to check your homework answers with the Key. Once I release the homework answers I will no longer accept that assignment.

Homework Submission Guidelines

1. You will get credit for submitting homework. The answer key will be posted one week after the assignment due date. It is your responsibility to check your homework against the answer key to find any questions that you answered incorrectly. If you have questions bring them to class or email me.
2. ~~Written assignments must be typed into a computer and printed.~~
3. The first page must show your name, homework number, chapter number, and problem/question numbers assigned. Please put your name in the upper, right hand corner on page 1.
4. Questions and problems should be shown in correct numerical order.
5. Math problems and schematic drawings must be done by hand, in pencil, on engineering paper. Math problems must include all calculation steps with a box drawn around the answer.
6. All questions must include the question and the answer. Answers submitted without the questions will lose 50% of the points assigned to that question.

Lab Reports

Consult the Lab Report Format handout provided by your lab instructor for specifics on what is required in the lab report.

Late Assignments

Without prior arrangement, late work will be accepted after the due date and a 20% deduction will be imposed. (The one exception is the last day of class. Your final work must be turned in by the end of the class.) **No assignments will be accepted after the last class session.**

Student Responsibilities

You are responsible for reading the chapters and all lecture and lab material before coming to class. Come to class ready to participate.

Time Management

Plan to spend eight hours per week outside of class on homework assignments and preparation for this class; although you may not always need that much time, you should have it available.

Academic Integrity

I have a zero tolerance policy on cheating. You might want to read the JC's policy on academic integrity and student conduct. Here is a link that might be helpful: <https://student-conduct.santarosa.edu/>

Attendance

Attendance is required. If you miss a class, you are still responsible for submitting the assignments.

Cell Phone Policy

The goal is to prevent cell phone usage from disturbing students and faculty.

1.....No Ringing! All cell phones must be turned off or placed in vibrate mode when entering any lab or classroom.

2.....No Talking! No phone calls may be made or accepted while in any lab or classroom. Students must step outside before initiating phone calls or answering their phone.

3.....No Texting!

Other Personal Electronic Devices

No other personal electronic device including personal headphones or wireless cell phone headsets may be used during class.

Important Dates

Date Class Begins:	8/20/2019
Date Class Ends:	12/17/2019
Last Day Add w/o add code:	8/25/2019
Last Day Add with add code:	9/8/2019
Last Day Drop for Refund:	9/1/2019
Last Day Drop w/o W:	9/8/2019
Last Day Drop with W:	11/17/2019
Date Final Exam:	12/17/2019

Accommodations for Students with Disabilities

If you need disability related accommodations for this class, such as a note taker, test taking services, special furniture, etc., please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to the instructor as soon as possible. You may also speak with the instructor privately during office hours about your accommodations. If you have not received authorization from DRD, it is recommended that you contact them directly. DRD is located in Analay Village on the Santa Rosa campus (707) 527-4278, and Jacobs Hall on the Petaluma Campus (707) 778-2491.