

Introduction to Circuit Analysis Engineering (ENGR 37) (48851)

De Anza College Winter 2026

Dr. Irfan Saadat

Class hours:

Mon and Wed (Jan 05- Mar 18) (In person) RM(S42)
6:30 pm -8:45pm

Students hours:

Mon and Wed 6-6:30PM RM S42by appointments.
Email: saadatirfan@fhda.edu

Course objectives

Circuit laws, resistive, capacitive, inductive, and combination (RLC) circuits with DC sources, ideal operational amplifier, diodes, controlled sources, natural and complete response of simple circuits, steady-state sinusoidal analysis, Thevenin and Norton; Fundamentals of diode circuits.

Course Requirement:

Required: Math 1D
PHYS 4B(may be taken concurrently)

Text

Fundamentals of Electric Circuits (7th Edition by Charles K. Alexander, Mathew N.O. Sadiku, Publisher: McGraw Hill

Schedule and Outline:

- Generally, there will be a single chapter covered each week, there will be homework and lab for each chapter. It is assigned on the day of the first lecture and will be due the following week on the same day. There may be adjustments for holidays and exams.
- There will be in class quiz after each chapter.
- The HW and Lab will be group assignments, and the groups will be formed during the first week.

IMPORTANT DATES: (Check the De-Anza College Website as well for any changes)

First Class: Tuesday Sep 23, 2025

Mon Class	Quiz	HW	Lab	Chapter	Wed Class	Quiz	HW	Lab	Chapter
05-Jan				1	07-Jan				1-2
12-Jan	1	1 Due	1 Due	2	14-Jan				2-3
Jan -19	MLK-Holiday				Jan-21	2	2 Due	2 Due	3
Jan-26				4	Jan-28	3	3 Due	3 Due	4-5
Feb-02	4	4 Due	4 Due	5	Feb-04	5	5 Due	5 Due	Review
Feb-09	Midterm				Feb-11				Diode
Feb-16	President Day Holiday				Feb-18				Diode-6
Feb-23				6-7	Feb-25	6	6 Due	6 Due	7
Mar-02	7	7 Due	7 Due	8	Mar-4				8
Mar-9	8	8 Due	8 Due	9	Mar-11				9-10

Mar-16	9	9 Due		10	Mar-18		10 Due	10 Due	Review
Mar-23	Final Week				Mar-25	Final Weel			

CLASS ATTENDANCE

If you are absent on the first week and have 2 consecutive absences, you will be dropped.

Students are expected to attend all sessions of each class. Instructors may drop students from the class if they fail to attend the first-class meeting, or when accumulated, unexcused hours of absences exceed ten percent of the total number of hours the class meets during the semester.

Grading Policy

Quizzes	15%
Homework	10%
Midterm	25%
Lab Assignments	20%
Final Exam	30%

Grades Details:

- 100% to 90%: A
- 89% to 80%: B
- 79% to 70%: C
- 69% to 60%: D
- 59% and below: F

For assignments that are due in class, if you are absent, the online submission will be considered late submission, and you may get only up to 50% credit.

HW, and Lab's assignments must be submitted on time otherwise up to 50% credit will be given.

No make up exam for quizzes.

There is no make-up exam for Midterm or Final exams unless appropriate documentation is provided and discussed with me (in person) prior to exam and is approved by me.

IMPORTANT DATES

(Check the De-Anza College Website as well for any changes)

First Class: Jan 05, 2026

Final Exam: In class week of 3/23

Students are responsible for checking the Academic Calendar for important deadlines and any changes in the deadlines

Before the Census date, students who miss the first day of class and one additional session may be dropped unless prior arrangements are made with the instructor.

After the Census date, students are responsible for dropping the class if they are absent more than three times. Failure to drop will result in a grade based on the grading policy outlined in the syllabus or on Canvas.

SLO (Student Learning Outcomes)

-Analyze the electrical behavior of DC and AC circuits including first and second order circuits using various circuit analysis techniques by calculating volts, ohms, and amps.

Honesty is the foundation of academic work

Occasionally, you may feel overwhelmed by the amount of work you need to accomplish. If you cheat, you may get a warning, receive no credit for the assignment or be referred to the Vice President of Student Services for disciplinary action. You would also be de-valuing your resulting degree or certificate when you enter the workforce or transfer and cannot meet the expectations that your degree or certification requires.

Here are some examples of what you should and should not do:

What not to do

- Pay someone to do your homework/project. Recent reports show that people who sell papers or do schoolwork for pay by students may end up "blackmailing" those students in a variety of situations. For example, if the student defaults on the agreed amount of compensation, does not purchase additional services, etc., these people have been known to notify the college of the misbehavior of students caught in this kind of trap.
- Use applications on the web to find answers on tests or quizzes. If I suspect that your work is copied from an application, I'll set up a meeting with you and ask you to do a similar problem with me.
- Copy answers or work from another student.
- Ask another student to do your work for you.

What to do

- Trust the value of your own intellect.
- Demonstrate your own achievements and abilities.
- Ask for help from me, or your classmates
- Start a study group with your classmates

CODE OF STUDENT CONDUCT

The district shall enforce a student code of conduct the purpose of which is to promote and maintain orderly conduct of a responsible student body in a manner compatible with the District and College function as an educational institution (Education Code 76030)

What should you do if you can't reach me?

- I will respond to Canvas Inbox messages within 3-4 hours. If you don't hear from me within this timeframe (on weekend may be longer) , please email me again! I'm human and sometimes I miss messages.
- You can also try messaging me via my email: saadatirfan@fhda.edu
- If you are looking for information that is not specific to our class, you can find updates on the De Anza [homepage](#), [Facebook](#) or [Twitter](#) page. They may have updates or news before I do!

Name and pronoun

If you'd like to be known by a name different from the name on the roll sheet or if you have a personal pronoun, please contact me, and I will make every effort to call you by the name and pronoun you use.

What you can expect from me

- I will treat you with dignity and respect and be flexible to support your individual needs.
- I will provide you with a clear, organized course that is designed to ensure you meet our course outcomes in a meaningful manner.
- I will provide a variety of assignments to ensure your learning needs are met.
- I will grade assignments in a timely manner to facilitate your success on future assignments.
- I will be actively present in your learning.
- I will provide a supportive and safe environment for you to share and discuss ideas with your peers.
- I will reach out to you when I sense that you need support.

What I will expect from you

- Treat me and your peers with dignity and respect.
- Strive to be an active participant in this course.
- Maintain an open line of communication with me so I understand how to support you.
- Aim to meet due dates. Contact me if an emergency arises.
- Do your best to have patience with technology. There will be hiccups; expect them. We will get through them together.

What we can expect from each other

- We won't be perfect. We are human and will make mistakes at times. We will view mistakes as an opportunity to learn and grow.
- We will all strive to contribute regularly in collaborative activities to ensure all members of the community have ample opportunity to read/listen, reflect, and respond to all ideas.
- Disagreements are part of learning and growing, but we will always treat one another with dignity and respect. If you sense a negative emotion surfacing within yourself, step away for a while; reflect on what is happening; then return and respond by focusing on the issue, not the person.

Is there anything else you would like to add to any one of these lists? If so, you will have the opportunity to share your suggestions during the first week of school.

DISABILITY STATEMENT

AS PART OF DE ANZA'S DISABILITY SUPPORT PROGRAMS AND SERVICES (DSPTS), DSS ASSISTS THE COLLEGE TO COMPLY WITH LEGAL MANDATES RELATED TO ACCESS AND EQUAL OPPORTUNITY FOR PERSONS WITH DISABILITIES SUCH AS APPLICABLE REQUIREMENTS IN THE 1990 AMERICANS WITH DISABILITIES ACT. TITLE 5 OF THE CALIFORNIA COMMUNITY COLLEGE CODE OF REGULATIONS AND SECTIONS 504 AND 508 OF THE 1973 REHABILITATION ACT. PLEASE REFER TO LINK BELOW ON SERVICES PROVIDED:

[HTTPS://WWW.DEANZA.EDU/DSPTS/DSS/](https://www.deanza.edu/dspts/dss/)

SAFETY/EMERGENCY

It is the student's responsibility to know the evacuation procedures, evacuation route, and assembly area for this classroom. In case of an emergency, you are to follow the directions of your instructor. When directed to evacuate the classroom, *be sure to take all of your belongings when you leave* and remain with your class in the assembly area until you receive further directions. Also, we recommend reading the following link for more information:

<https://www.deanza.edu/collegeops/emergencies/index.html>

Student Learning Outcome(s):

- Analyze circuits containing resistive, capacitive, inductive passive elements, along with op-amps interconnected to voltage and current sources.
- Use circuit laws and network theorems to solve DC steady state circuits, RC, RL, and RLC DC circuit transients and sinusoidal AC steady state circuits.

Office Hours:

M,W 6:00 PM - 6:30 PM

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