Santa Clara University  
Department of Electrical Engineering  
Aleksandar I. Zecevic  
Fall 2021

**ELEN 50: Electric Circuits I**  

### SYLLABUS

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LEARNING OUTCOMES

Students who successfully complete this course should be able to:

1. Formulate Kirchoff current and voltage law equations in a systematic manner.
2. Formulate and solve node voltage and loop current equations.
3. Compute Thevenin equivalents and apply them in circuit analysis.
4. Analyze circuits with operational amplifiers.
5. Utilize phasor techniques to compute the sinusoidal steady state response of linear circuits.
6. Design and test circuits that meet a given set of specifications.

GENERAL INFORMATION

OFFICE: SCDI 4025 – O
OFFICE HOURS: Tuesdays and Thursdays, 4:00-5:00, and by appointment.
PHONE: (408) 554-2394
E-MAIL: azcevic@scu.edu
WEBSITE: http://www.engr.scu.edu/~azecevic/

GRADING

The course grade will be based on three criteria – homework, midterms and the final exam. This grade is worth 4 units, and will be calculated in the following way:
Homework: 10%
Midterm 1: 25%
Midterm 2: 25%
Final Exam: 40%

**Note:** The lab component of the course will be graded separately from the rest of the work (it is worth 1 unit).

**Academic Integrity Pledge:**

The Academic Integrity pledge is an expression of the University’s commitment to fostering an understanding of—and commitment to—a culture of integrity at Santa Clara University. The Academic Integrity pledge, which applies to all students, states:

“I am committed to being a person of integrity. I pledge, as a member of the Santa Clara University community, to abide by and uphold the standards of academic integrity contained in the Student Conduct Code.”

Academic integrity is part of your intellectual, ethical, and professional development. I expect you to uphold the principles of this pledge for all work in this class. I will clarify expectations on academic integrity as needed for assignments and exams. If you have questions about what is appropriate on any assignment, please let me know before you hand in work. For more resources about ensuring academic integrity in your work, including the appropriate use of course sharing sites such as Chegg, see this site created by the SCU Library at https://libguides.scu.edu/academic-integrity or visit www.scu.edu/academic-integrity.

**Safety Measures**

In order to meet our learning objectives, we will adhere to the highest standards for safety and mutual respect. I expect everyone to adhere to current university mask mandates at all times; to make their best attempt to make themselves heard when asking questions or contributing to discussions; and refrain from eating or drinking in class. It is expected that everyone will follow university guidelines about health and public safety measures outlined in the emails that was sent to students and their families on August 31, 2021.

**Office of Accessible Education**

If you have a documented disability for which accommodations may be required in this class, please contact the Office of Accessible Education (oae@scu.edu, http://www.scu.edu/oae) as soon as possible to discuss your needs and register for accommodations with the University. If you have already arranged accommodations through OAE, please be sure to request your accommodations through your myOAE
portal and discuss them with me during my office hours within the first two weeks of class.

To ensure fairness and consistency, individual faculty members are required to receive verification from the Office of Accessible Education before providing accommodations. OAE will work with students and faculty to arrange proctored exams for students whose accommodations include double time for exams and/or assistive technology. Students with approved accommodations of time-and-a-half should talk with me as soon as possible. The Office of Accessible Education must be contacted in advance (at least two weeks notice recommended) to schedule proctored examinations or to arrange other accommodations.

In light of shifting health advisories related to COVID-19, exams may be administered online. Students with approved testing accommodations should contact me (at least two weeks notice recommended) prior to an exam date to notify me of their intent to use their testing accommodations on the upcoming exam to ensure their accommodations are effectively implemented.

**Discrimination, Harassment and Sexual Misconduct (Title IX)**

SCU faculty are committed to helping create a safe and open learning environment for all students. If you (or someone you know) have experienced any form of discrimination, harassment or sexual misconduct, including sexual assault, dating or domestic violence, or stalking, know that help and support are available, I encourage you seek support and report incidents to the Director of Equal Opportunity and Title IX Coordinator, Belinda Guthrie, at 408-554-3043, bguthrie@scu.edu. For more information about reporting options and resources at Santa Clara University and in the community, please visit https://www.scu.edu/title-ix/. If you wish to speak with a confidential resource, please visit https://www.scu.edu/title-ix/resources/student/.