



# Syllabus for Survey of Electronics

## Course Information

Semester & Year: Fall 2021

Course ID & Section #: CET-10-E1773

Instructor's name: Mike Peterson

Day/Time of required meetings: Tuesdays and Thursdays / 2:30 to 3:55 PM

Locations: AT106

Course units: 3.0

## Instructor Contact Information

Office location: AT122

Office hours: Mondays and Wednesdays 1:30 to 2:00 PM, and by appointment.

Phone number: (707) 476-4350

Email address: [mike-peterson@redwoods.edu](mailto:mike-peterson@redwoods.edu)

This class has a Canvas Inbox Messaging system, please contact me there as our primary method of remote communication.

## Catalog Description

An introductory course in electricity and electronics. Students will learn basic components of physics, chemistry, and mathematical analysis, as needed. Topics include methods for generating and storing electricity, design and selection of energy efficient devices, and the impact of electricity and electronics on society and the environment.

## Course Student Learning Outcomes from Course Outline of Record

1. Describe the operation of electrical and electronic devices, circuits, and systems.
2. Analyze circuits and compute electrical and electronic variables.
3. Explain the influence of electricity and electronics on world history and cultures.

## Prerequisites/Co-Requisites/Recommended Preparation

This course has no prerequisite.

## Required Textbook

*Electricity & Electronics*, 11th Edition, Gerrish, Dugger, Roberts, ISBN: 978-1-63563-870-7 for the printed book or get the eBook subscription, ISBN: 978-1-64564-216-9.

## Accessibility

College of the Redwoods is committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1<sup>st</sup> floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary

arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

## **Student Support**

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

## **Evaluation & Grading Policy**

Your final grade for the course will be based on the following criteria:

1. Four Examinations, 10% each	40%
2. Homework Problems from the Textbook	15%
3. Essays	10%
4. Quizzes and Written Assignments	10%
5. Research Project	10%
6. Final Examination	15%

### **Details on Grading Items**

1. There will be four examinations, each covering material from the text, homework, lectures, discussions, quizzes, presentations, videos, and demonstrations. These examinations will be based on course material covered since the previous examination.
2. Homework problems from the textbook chapters will be assigned according to the course schedule document. You must submit your homework in the Canvas Learning Management System. Textbook chapter homework is due prior to the next class meeting. For example, Thursday's homework, as shown on the schedule, is due before class on Tuesday. Textbook chapter homework will be accepted late, but it must be turned in before class, two class days from the assigned date. After two class days the Canvas page will no longer accept chapter homework, please communicate with me if that happens. Complete your homework in a timely manner so that you can overcome any technical difficulties in accessing the Canvas system and uploading your homework. You have a few options for completing your textbook chapter homework. You may write your textbook chapter homework assignments on paper and scan or digitally photograph them into computer files that are uploaded into Canvas. You may type your homework into standard word-processing software or text editors and save them as standard files that are uploaded to Canvas. Finally, you may type your chapter homework into the Canvas text entry fields in each homework assignment page. Homework must be submitted on Canvas; paper will not be accepted. There will be a separate Canvas assignment page for each textbook chapter, do not combine chapter assignments even if they are due on the same day.
3. Two written essays will be due according to the course schedule. These are each worth 5% of your total course grade. More information on these essays including a grading rubric will be provided.
4. Quizzes and concise written assignments will be given throughout the course. These do not appear in the schedule and will be based on text reading assignments, homework, lectures, discussions, presentations, videos, and demonstrations.

5. You will complete a course project of your choice based upon criteria that will be provided later in a separate document. This will be a research project and the deliverables can be a term paper, an oral presentation to the class, a demonstration of an electrical or electronic concept, or a presentation of your electronic project.

6. The final examination may cover any material from the course.

Additional details for each of these criteria will be provided by additional course documents.

Grades will be assigned according to these percentages:

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = 0 – 59%

## **Class Schedule**

All course meeting dates are detailed in a separate document titled *Schedule Document for CET-10 Fall 2021.pdf*.

## **Classroom Policies**

All COVID-19 related protocols and policies will be enforced in this class. We can expect these protocols to change throughout the semester. In addition, the following policies will be in effect for this class.

1. Students are expected to follow the College of the Redwoods Student Code of Conduct Standards. Please review the Student Code of Conduct in the CR catalog or on the CR website.
2. Food and beverages will not be consumed in the classroom; college policy prevents you from removing your face covering indoors. We will take frequent breaks, feel free to take a moment outside as needed.

## **Final Examination**

The final examination for this class is Tuesday, December 14, 2021 from 3:15 to 5:15 PM.

## **Admissions deadlines & enrollment policies**

Fall 2021 Dates

- *Classes begin: August 21, 2021*
- *Last day to add a class: August 27, 2021*
- *Last day to drop without a W and receive a refund: September 3, 2021*
- *Labor Day Holiday (all campuses closed): September 6, 2021*
- *Census date: September 7, 2021 or 20% into class duration*
- *Last day to petition to graduate or apply for certificate: October 28, 2021*
- *Last day for student-initiated W (no refund): October 29, 2021*
- *Last day for faculty-initiated W (no refund): October 29, 2021*
- *Veteran's Day (all campuses closed): November 11, 2021*
- *Fall Break (no classes): November 22, 2021 through November 26, 2021*
- *Thanksgiving Holiday (all campuses closed): November 24, 2021 through November 26, 2021*

- *Final examinations: December 11, 2021 through December 17, 2021*
- *Last day to petition to file P/NP option: December 17, 2021*
- *Semester ends: December 17, 2021*
- *Grades available for transcript release: approximately January 7, 2022*

## **Academic dishonesty**

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

## **Disruptive behavior**

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

## **Inclusive Language in the Classroom**

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

## **Setting Your Preferred Name in Canvas**

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact [Admissions & Records](#) to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. This does not change your legal name in our records. See the [Student Information Update form](#).

## **Canvas Information**

If using Canvas, include navigation instructions, tech support information, what Canvas is used for, and your expectation for how regularly students should check Canvas for your class.

Log into Canvas at <https://redwoods.instructure.com>

Password is your 8 digit birth date

For tech help, email [its@redwoods.edu](mailto:its@redwoods.edu) or call 707-476-4160

Canvas Help for students: <https://webapps.redwoods.edu/tutorial/>

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](#)

## Community College Student Health and Wellness

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Health & Wellness website](#).

[Wellness Central](#) is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email [counseling@redwoods.edu](mailto:counseling@redwoods.edu).

## Emergency procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor <https://webadvisor.redwoods.edu> and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or [security@redwoods.edu](mailto:security@redwoods.edu) if you have any questions. For more information see the [Redwoods Public Safety Page](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

## Eureka Campus Emergency Procedures

Please review the [campus emergency map](#) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [Redwoods Public Safety Page](#). It is the responsibility of College of the Redwoods to protect life and property from the effects of emergencies within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and/or has been deemed safe by the person in command.

## Student Support Services

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)

- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

The Learning Resource Center includes the following resources for students:

- [Academic Support Center](#) for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center
- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides services to eligible income disadvantaged students including: textbook award, career academic and personal counseling, school supplies, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#)
- The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

## **Additional Information**

Thank you for enrolling in this course at College of the Redwoods. The most important people on the campus are the students. If there is anything that I can do to help make your experience at the college better, please feel free to contact me with any and all questions or concerns. My classrooms and laboratories are safe environments for every student. This syllabus is subject to change.