



Fall 2025

College of the Redwoods



Course Information

Semester & Year: Fall 2025

Course ID & Section #number: CT-78C-E9143

Instructor's name: Robert Satava

Day/Time of required meetings: Wednesday 6:05pm-10:20pm

Location: HU129

Number of proctored exams: 1

Course units: 2



Instructor Contact Information

Office location: N/A



hours: N/A

Phone number: N/A



Email address: robert-satava@redwoods.edu



Required Material

Required Textbook: *House Wiring, 5th edition*, by Greg Fletcher



Catalog Description

A continuing study of the electrical theory, principles and skills learned in CT-78B. Students will act as group leaders and be involved in problem solving. Specific instruction will be in relays, motors, 3-phase power, schematics, heating equipment, high efficacy lighting and electronic controls required for the completion of the student project house.



Course Student Learning Outcomes

- Calculate the electrical requirements for a single family residence, including watt loss and voltage drop for 2-wire and 3-wire circuits.
- Apply the NEC and California Electrical Code requirements for electrical service.
- Install the major components of the typical residential electrical system.



Course Calendar

Date	Topic	What's Due
?	Welcome to class/ Course Introduction	



Date	Topic	What's Due
9/3	Switching Circuit Installation	Read chapter 13 complete quiz on Canvas
9/10	Branch Circuit Installation	Read chapter 14 complete quiz on Canvas
9/17	Special Residential Wiring Situations	Read chapter 15 complete quiz on Canvas
9/24	Video, Voice, and Data Wiring Installation	Read chapter 16 complete quiz on Canvas
10/1	Lighting Fixture Installation	Read chapter 17 complete quiz on Canvas
10/8	Device Installation	Read chapter 18 complete quiz on Canvas
10/15	Service Panel Trim-Out	Read chapter 19 complete quiz on Canvas
10/22	Midterm Exam 6:05p-8:05p (In-class)	
10/29	Final Project Introduction	
11/5	Final Project	
11/12	Final Project	
11/19	Final Project	
11/26	Fall Break – No Classes	
12/3	Final Project	
12/10	Final Project Review	Discussions and review of Final Projects
12/18	Final Project Submission Due	***NOTE: This is the Thursday after your scheduled class. Projects must be delivered to me before the end of the CT78A Final Exam.



Evaluation & Grading Policy

Student Contribution

Students are expected to spend time reading assigned material, answering chapter review questions, and studying for tests as necessary outside of normal class time.

Attendance is critical in this course. Lectures may contain material not included in the textbook and students will be responsible for this material. The student will be expected to participate in all lectures, preferably as “interactive aides”, but minimally as “active



listeners”. Each student is responsible for all material presented in this course regardless of class attendance. Students will be expected to adhere to the College of the Redwoods Student Code of Conduct and Discipline at all times.

Course Participation Policy

In every occupation participation is critical and this course is no different. Everyone has a task and something to contribute, we all depend on each other in order to realize our goals. In order to fully participate, students must be present and actively engaged in whatever the current task is. Punctuality is an important part of participation. If someone is late for work, it not only reflects poorly on their character, it puts the entire process behind schedule. Absences may be excused for medical reasons and some family related reasons such as a death in the immediate family. Any student seeking an excused absence should be able to provide proof of their reason for absence prior to the absence being excused.

****Attendance is required: 10 points for each class attended (0 points if class is missed, 5 points if you are late or leave early)****

Assignments/Exams

Assignments and exams are to be completed as assigned. Assignments and exams are posted in Canvas with a description of how to complete the assignments and when it is due. If there are questions about the requirements for any assignment or exam, it is the student’s responsibility to seek clarification from the instructor. There will be no substitutions for assigned course work, as a general rule.

Late and/or Missing Work

By default, all late and missing work is the responsibility of the student and should be completed as assigned. The instructor assumes no obligation to offer make-up work or any type of alternative arrangement for late and/or missing assignments.

Missed Assignments/Exams

Some assignments and exams can only be completed if students are in class. If a student must miss a class, for any reason, their ability to make up the missed assignment is up to the discretion of the instructor. If a student must miss an exam, it is



responsibility to notify the instructor PRIOR to the scheduled exam. A student’s ability to make up a missed exam is mostly dependent on how much notice the



instructor is given. The process for makeup exams entails students making an appointment with the Testing Center at the Academic Support Center in the Learning Resource Building on campus. The exam must be made up prior to the post exam review that follows the original exam date. Typically, an exam is scheduled on a certain day and the following week the exam is returned to students and a post exam review is held in class. Therefore, typically, a makeup exam must be completed either before, or within a week of, the original exam date.

Safety

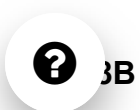
Workplace safety is of the highest priority in any industry. As we are learning, and in a sense training, to be electricians it is of the utmost importance that we discuss and practice workplace safety in everything we do. Some students may have taken courses designed for this while others have not. Therefore while we are at the project house all students will conduct themselves in a safe and professional manner. Any lack of attention or regard for the safety of oneself or others can and will be handled by dismissal from the jobsite. We will cover many safe practices but it is also the responsibility of the student to ask about proper safety practices before attempting any task that may be deemed “unsafe” without prior training. This includes, but is not limited to: climbing ladders, using power tools and working on or around live circuitry. **No student is authorized to energize any circuits without first receiving approval from the instructor. No student will ever be permitted to work on a circuit that is energized without first de-energizing the circuit.**

Drug and Alcohol Policy

Being under the influence of drugs or alcohol during class is unacceptable and is a violation of the student code of conduct. Any student suspected of being under the influence of drugs or alcohol will be asked to leave. Further action may include referral to the Chief Student Services Officer and/or removal from the program.



Prerequisites / Co-requisites / Recommended Preparation





Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, or bipolar disorder
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- Neurodevelopmental disorders such as a learning disability, intellectual disability, autism, acquired brain injury, or ADHD
- Vision, hearing, or mobility conditions

Available services include extended test time, quiet testing environments, academic assistance and tutoring through the [LIGHT Center](https://www.redwoods.edu/services/sass/light.php) [↗](https://www.redwoods.edu/services/sass/light.php), counseling and advising, alternate formats of course materials (e.g. audio books or E-texts), assistive technology, learning disability assessments, approval for personal attendants, interpreters, priority registration, on-campus transportation, adaptive physical education and living skills courses, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Student Accessibility Support Services \(SASS\)](https://www.redwoods.edu/services/sass/index.php) [↗](https://www.redwoods.edu/services/sass/index.php).

If you are unsure whether you qualify, please contact SASS for a consultation: SASS@redwoods.edu [↗](mailto:SASS@redwoods.edu).

SASS office locations and phone numbers

Eureka campus

- Phone: 707-476-4280,
- Locations: Student Services building, first floor SS113

Del Norte campus

- Phone: 707-465-2353
- Location: Main building, near the Library

Klamath-Trinity campus



- 707-476-4280

