

# Syllabus for CT 72 – Electrical Codes & Standards

## Course Information

Semester & Year: **Spring 2025**

Course ID & Section #: **E7669**

Instructor's name: **Robert Satava**

Day/Time of required meetings: **T 6:05pm-8:10pm**

Location: **HU 129**

Course units: **2**

## Instructor Contact Information

Office location: **N/A**

Office hours: **N/A**

Phone number: **N/A**

Email address: **robert-satava@redwoods.edu**

## Catalog Description

A course covering technical information and pertinent sections of the National Electrical Code. This course provides discussion and practice using the NEC by applying its provisions to technical examples and questions. Special emphasis will be placed upon examples related to residential requirements. Note: Concurrent enrollment in Architecture or Construction Technology courses, or concurrent construction trade experience is recommended.

## Course Student Learning Outcomes

- 1) Apply a working knowledge of the National Electrical Code.
- 2) Plan the installation requirements for various types of conduits, electrical panels, and motor controls.
- 3) List the electrical-code requirements for various types of buildings.
- 4) Analyze examples of electrical installations to determine specific NEC requirements.

## Prerequisites/corequisites/ recommended preparation

Concurrent enrollment in Architecture or Construction Technology courses, or concurrent construction trade experience is recommended.

## Textbook

Required Text:

*Applied Codeology: Navigating the NEC 2020*, by NJATC, ISBN: 978-1935941316

NFPA 70: National Electrical Code (NEC) 2020, by NFPA, ISBN: 978-1455912773

Recommended:

NFPA 70® Tabs: National Electrical Code® (NEC®) or Handbook Tabs, 2020 Edition

## 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](#), counseling and advising, alternate formats of course materials (e.g., audio books, braille, 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 \(SASS\)](#). If you are unsure whether you qualify, please contact Student Accessibility Support Services (SASS) for a consultation: [sass@redwoods.edu](mailto:sass@redwoods.edu).

### SASS office locations and phone numbers

#### Eureka campus

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

#### Del Norte campus

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

#### Klamath-Trinity campus

- Phone: 707-476-4280

## Canvas Information

- Log into Canvas at [My CR Portal](#)
- For help logging in to Canvas and general tech help, visit [Canvas Support Home](#)
- Once you're logged in to Canvas, you click on the Help icon on the left menu
- Canvas online orientation workshop: [Canvas Student Orientation Course](#)

## Spring 2025 Dates

Date	To Remember
January 17	Last day to register for classes (day before the first class meeting)
January 18	Classes begin
January 20	Martin Luther King's Birthday (All Campuses Closed)
January 24	Last Day to add a class
January 31	Last Day to Drop & Receive a Refund
February 2	Last Day to Drop w/out a "W"
February 3	Census Date (20% of class)
February 14	Lincoln's Birthday (All Campuses Closed)
February 17	President's Day (All Campuses Closed)
March 6	Last Day to Petition to Graduate & Petition for Certificate
March 17 - 22	Spring Break (No Classes)
March 28	Last Day for Student/Faculty Withdrawal
March 31	Cesar Chavez Day (All Campuses Closed)
May 10 - 16	Final Examinations
May 16	Last Day to File P/NP Option
May 16	Semester Ends
May 23	Grades Due
May 26	Memorial Day (All Campuses Closed)
May 30	Grades Available for Transcript Release

## Student Support Services

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.

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

### [CR Online Learning Support](#)

Tech support, laptop loans, guides to using Canvas, installing Office 365 for free, and more.

### [Library Articles & Databases](#)

Find the best library databases for your research.

### [Online Tutoring Resources](#)

Participate in tutoring over Zoom.

To learn more about the resources available to you, click on a title bar below, or click the down arrow to expand them all.

Klamath-Trinity students can contact the CR Klamath-Trinity Office for specific information about student support services at 530-625-4821.

## **Learning Resource Center**

The Learning Resource Center includes the following resources for students:

### Library Services

[Introduction - Library Services for Students - LibGuides at College of the Redwoods](#) promotes information literacy and provides organized information resources.

### Multicultural and Equity Center (MCE)

The [Multicultural and Equity Center](#) is a dynamic and inclusive place that supports all students in their academic and personal journeys at the college. We do this by creating community, home away from home, and a safe place for cultural expression, cross-cultural learning, access to college and dignity resources, and social justice work opportunities. The MEC is committed to retention and student success by offering activities related to leadership development, student connectedness and student equity. We are a student-centered program that fosters respect for all people.

### Academic Support Center

The [Academic Support Center](#) offers tutoring and test proctoring for CR students.

### Student Tech Help

Technical [Support](#) provides students with assistance around a variety of tech problems.

## 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 [2024-2025 College Catalog](#) and [CR Board and Administrative Policies](#).

## AI Use Class Policy

Recent advancements in generative artificial intelligence (AI) have made large language models such as ChatGPT and Google's Bard widely available. Sometimes, using these tools appropriately can help us overcome barriers and allow us to focus on deeper learning. However, overuse of these tools can undermine the development of our critical and creative thinking skills. In addition, AI outputs are often unreliable and frequently subject to bias. For these reasons, it is sometimes appropriate and sometimes inappropriate to use generative AI in the completion of assignments or in discussion posts. For this class, please see the specific assignment instructions for guidance on how and when generative AI tools may be used appropriately as we're working on and learning from a particular assignment. Also, please keep in mind that you are responsible for anything you submit; please carefully review all AI-generated outputs, screening them for accuracy, bias, appropriateness, and fidelity to your perspective.

## 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. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [2024-2025 College Catalog](#) and [CR Board and Administrative Policies](#).

## 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](#) and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or [campus-safety@redwoods.edu](mailto:campus-safety@redwoods.edu) if you have any questions. For more information visit [Campus Safety](#). Please review the [EurekaEmergencyMap\\_S24.pdf](#)

for campus evacuation sites, including the closet site to this classroom (posted by the exit of each room).

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.

## **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.

**\*\*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 their 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.

### **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.

### **CT 72 Course Evaluation**

Grades will be earned as follows:

Attendance - 10 points each/15 classes, 150 points possible

Chapter Quizzes/worksheets - 10 points each, (TBD) points possible

\*\*\*Late Homework submissions will be discounted 25%\*\*\*

Final - TBD

TOTAL – (TBD) points possible

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F 59% and below

### **Course Calendar**

Week 1 Jan. 21	Introduction to Electrical Codes and Standards Review syllabus, brief lecture about the NEC and Applied Codeology
Week 2 Jan. 28	Overview and Organization of the NEC Complete assignment and quiz found on Canvas
Week 3 Feb. 4	Planning the Installation Complete assignment found on Canvas
Week 4 Feb. 11	Planning the Installation(con't) Complete assignment and quiz found on Canvas
Week 5 Feb. 18	Building the Installation Complete assignment found on Canvas
Week 5 Feb. 25	Building the Installation(con't) Complete assignment and quiz found on Canvas
Week 6 Mar. 4	The Codeology Method and Test Prep Complete assignment and quiz found on Canvas

Week 7 Mar. 11	Mid-Term Exam In class written exam
Week 8 Mar. 18	Spring Break! I need a break!!!
Week 9 Mar. 25	No Class
Week 10 Apr. 1	Using the Electricity Complete assignment found on Canvas
Week 11 Apr. 8	Using the Electricity(con't) Complete assignment and quiz found on Canvas
Week 12 Apr. 15	The NEC "Special" Chapters – Special Occupancies Complete assignment and quiz found on Canvas
Week 13 Apr. 22	The NEC "Special" Chapters – Special Equipment Complete assignment and quiz found on Canvas
Week 14 Apr. 29	The NEC "Special" Chapters – Special Conditions Complete assignment and quiz found on Canvas
Week 15 May 6	Communication Systems and Tables Complete assignment and quiz found on Canvas
May 13	Final Exam 6:05p-9:05p In class written final exam