CT 80 Carpentry Theory I

Course Information

Semester & Year: Fall 2024
Course ID and Section number: CT 80 E7469
Instructor's name: Derek Glavich
Day and time of required meetings: Monday, 9:00-12:10
Location: HU 125
Course units: 3

Instructor Contact Information

Office location: AT 140
Office hours: By appointment
Email address: derek-glavich@redwoods.edu
Communication notes: I will respond to emails within 24 hours except on weekends. Please check your email each morning before class for potential updates.

Catalog Description

A study of residential construction methods and materials. This class parallels progress on the student-build project house. Topics will include building layout, foundations, floor, wall, and roof framing, wall and roof sheathing.

Course Student Learning Outcomes

1. Define terms used in residential construction.
2. Apply mathematical processes (measuring, computing, applying trigonometry) used in residential construction.
3. Interpret construction documents.

Prerequisites/corequisites/ recommended preparation

Math 10 recommended prep or co-requisite.

Required Materials

Textbook: *The Complete Visual Guide to Building a House* by John Carroll and Chuck Lockhart. ISBN: 978-1-60085-022-6

Evaluation & Grading Policy

Grades **will be earned** as follows:

4 quizzes – 50 points each	200 points possible
5 Ask the Instructor Questions – 5 points each	25 points possible
9 Homework assignments – 5 points each	45 points possible
Construction Research Paper	20 points possible
Midterm – 100 points	100 points possible
Final – 100 points	<u>100 points possible</u>
TOTAL	490 points possible

Late assignments/quizzes will receive a maximum 50% of point value.

Final grades will be determined according to the following breakdown:

    A   90 – 100 %
    B   80 – 89 %
    C   70 – 79 %
    D   60 – 69 %
    F   59% or less

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 for up to two classes. Further action may include referral to the Chief Student Services Officer and/or removal from the program.

Course Calendar

Week 1: 8/25-8/31
Introduction to The Construction Technology Program. Do Math Review and Homework #1 on Canvas. **Lecture:** Construction Technology Program. **Lecture**: Building Materials and Terminology. **Lecture:** Building Plans and Codes. Week 1 Discussion: Get to Know Your Classmates!

Week 2: 9/1-9/7
Do Homework #2: Building Plans and Codes on Canvas. Do Tape Measure Quiz on Canvas. Ask the Instructor #1. **No Class Monday, 9/2 for Labor Day.**

Week 3: 9/8-9/14

Lecture: Building Plans and Codes. Read Ch. 1 pp 6-33: Building Foundations. Do Homework #3: Building Layout on Canvas. **Lecture:** Building Layout. **Quiz #1.**

Week 4: 9/15-9/21

Read Ch.1 pp. 34-49: Building Foundation Walls. Do Homework #4: Concrete Form Construction on Canvas. **Lecture:** Concrete Form Construction.

Week 5: 9/22-9/28

Turn in Ask the Instructor #2 on Canvas. **Lecture:** Pre-Pour. **Lecture:** Concrete. **Quiz #2.**

Week 6: 9/29-10/5

Read Ch.2 pp. 50-70: Framing Floors. Do Homework #5: Floor Framing on Canvas. **Lecture:** Floor Framing.

Week 7: 10/6-10/12

Lecture: Floor Framing (Cont.) Floor Framing video. Turn in Ask the Instructor #3 on Canvas. **Midterm**.

Week 8: 10/13-10/19

Read Ch.2 2 pp. 71-97: Framing Walls. Do Homework #6: Wall Framing on Canvas. **Lecture:** Wall Framing.

Week 9: 10/20-10/26

Lecture: Wall Framing (cont.) Wall Framing video. **Quiz #3**

Week 10: 10/27-11/2

No Class Monday 10/28.

Week 11: 11/3-11/9

Read Ch. 4 pp.142-181: Framing Roofs 2: Trusses, Eaves, Rakes, and Sheathing. Do Homework #7: Trusses and Roof Sheathing on Canvas. Turn in Ask the Instructor #4 on Canvas. **Lecture:** Trusses and Roof Sheathing.

Week 12: 11/0-11/16

Read Ch. 3 pp 98-141: Framing Roofs 1: Raftered Roofs. Do Homework #8: Raftered Roofs on Canvas. **Lecture:** Roof Framing.

Week 13: 11/17-11/23

Lecture: Roof Framing. Roof Framing Video. Construction Research Paper due 11/21.

Week 14: 11/24-11/30
No Class. Thanksgiving Break.

Week 15: 12/1-12/7
Read Ch. 5 pp.184-230: Do Homework #9: Roofing on Canvas. Turn in Ask the Instructor #5 on Canvas. **Lecture:** Roofing**.**

Week 16: 12/8-12/14
Final Review – Open Forum.

Finals Week 12/15-12/21
Final Exam.

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, bipolar disorder, and ADHD
- 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
- A learning disability (such as dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (such as audio books or E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact Disability Services and Programs for Students (DSPS). If you are unsure whether you qualify, please contact DSPS for a consultation: dsps@redwoods.edu.

DSPS office locations and phone numbers
Eureka campus
- Phone: 707-476-4280
- Location: Student Services Building, first floor
Del Norte campus
- Phone: 707-465-2324
- Location: Main Building, next to the library
Klamath-Trinity campus
- Phone: 707-476-4280

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.

Community College Student Health and Wellness

National Suicide Prevention Lifeline

If you are in distress or are with someone at risk right now, call or text the National Suicide Prevention Lifeline.

Call the National Suicide Prevention Lifeline
1-800-273-TALK (8255)

Text the National Suicide Prevention Lifeline
741-741

Timely Care

When you're not feeling well physically or distressed mentally, Timely Care can offer the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. [Log in or set up an account with Timely Care](#).

Mental Health Counseling

Students should text, email, or fax Shawna Bell directly for scheduling and/or services.

- Text: 707-496-2856

- Email: shawnabmft@gmail.com
- Fax and voicemail: 707-237-2318

Wellness Central

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 Wellness Central.

Counseling

Counseling and Advising can assist students in need of academic advising and professional counseling services. Call, email or stop by one of our offices to make an appointment!

Counseling and Advising office locations and contact info

Eureka campus
- Phone: 707-476-4150
- Location: Student Services Building, first floor
- Email: counseling@redwood.edu
- Hours: Monday through Friday, 9am to 4pm. Summer hours may vary

Del Norte campus
- Phone: 707-476-2300
- Location: Main Building, next to the library
- Hours: Summer hours may vary

Klamath-Trinity campus
- Phone: 530-625-4821
- Email: KT-staff@redwoods.edu
- Hours: Summer hours may vary

Basic Needs Center

The Basic Needs Center provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. Submit a request for services and information.

Basic Needs Center contact info
- Phone: 707-476-4153
- Email: the-grove@redwoods.edu

Learning Resource Center

The Learning Resource Center includes the following resources for students:

Library Services

Library Services 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

[Student Tech Help](#) provides students with assistance around a variety of tech problems.

Extended Opportunity Programs and Services (EOPS)

[Extended Opportunity Programs and Services](#) (EOPS) provides services to eligible income disadvantaged students including: textbook awards, grants, career academic and personal counseling, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!

TRiO Student Success Program

The TRiO Student Support Services Program provides eligible students with a variety of services including academic advising, career assessments, assistance with transfer, and peer mentoring. Students can apply for the program with the [Eureka TRiO office](#) or the [Del Norte TRiO office](#).

Veterans Resource Center

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.

CalWORKS

California Work Opportunity & Responsibility to Kids ([CalWORKs](#)) provides supportive services to student parents with children under the age of 18, who are receiving cash assistance (TANF benefits), to become self-sufficient. Services include: transportation assistance, basic student supplies, tutoring, priority registration, laptop and calculator loans, career, academic, and personal counseling, and more!

Fall 2024 Dates

Date	To Remember
August 23	Last day to register for classes (day before the first class meeting)
August 24	Classes begin
August 30	Last day to add a class
September 2	Labor Day Holiday (district wide closure)
September 6	Last Day to Drop & Receive a Refund
September 8	Last Day to Drop w/out a "W"
September 9	Census Date (20% of class)
October 31	Last Day to Petition to Graduate & Petition for Certificate
November 1	Last Day for Student/Faculty Withdrawal
November 11	Veteran's Day Holiday (District Wide Closure)
November 25-26	Fall Break (No Classes)
November 27-29	Thanksgiving Holiday (District Wide Closure)
December 14-20	Final Examinations
December 20	Last Day to File P/NP Option
December 20	Semester Ends
December 27	Grades Due
January 3	Grades Available for Transcript Release

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 2023-2024 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. However, overuse of these tools in this class can undermine your learning and curtail the development of your critical and creative thinking skills. In addition, AI outputs are often unreliable and frequently subject to bias. For these reasons, the policy of this class is that AI cannot be used at any point in the completion of class assignments, including discussion posts. Any or all of your assignment submissions and discussion posts may be screened by AI detection software, but the real penalty for AI misuse is that you will miss out on an opportunity to learn.

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 2023-2024 College Catalog and CR Board and Administrative Policies.

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.

Canvas Information

- Log into Canvas at My CR Portal
- For help logging in to Canvas and general tech help, visit Student Technical Support
- 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

Setting Your Preferred Name and Pronouns in Canvas

Students have the ability to display personal pronouns and an alternate first name in Canvas. Students may change their pronouns on their own in Canvas (Account :: Settings :: Edit Settings). To request a change to your preferred list name, contact Admissions & Records. 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 (pdf).

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 security@redwoods.edu if you have any questions. For more information visit Redwoods Public Safety.

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.

To learn more about campus-specific Emergency Procedures, click on a title bar below, or click the down arrow to expand them all.