

CT 56 Construction Layout

Course Information

Semester & Year: Fall 2024

Course ID and Section number: CT 56-E7460

Instructor's name: Richard Page

Day and time of required meetings: Wed 8:30-12:00

Location: AT 109 and 1660 Allard Ave, Eureka

Course units: 2.5

Instructor Contact Information

Office: Please send an email and we can arrange a place and time

Office hours: By appointment

Email address: Richard-Page@redwoods.edu

Communication notes: I will respond to emails within 24 hours except on weekends. Please check your email each morning before class for updates about the class.

Catalog Description

An intermediate level course that teaches layout techniques for a residential construction project. This course will cover the use of leveling instruments and tools used in laying out buildings and establishing grade elevations. Students will also learn to lay out joists, walls, rafters, and basic stair units. Hands-on lab experience will strengthen lecture topics. The study of applied construction math is a component of this course.

Course Student Learning Outcomes

1. Apply construction mathematics to lay out a building, determine stair dimensions, and determine rafter lengths.
2. Interpret construction documents to lay out a building.

Recommend Corequisite

CT 80 Carpentry Theory I and CT 90: Beginning Carpentry 1

Required Supplies

Textbook: 1, Measuring, Marking & Layout by John Carroll. 2. Construction Master Calculator

Students are required to use OSHA approved safety glasses at all times and hearing protection when necessary. It is highly recommended that boot-type footwear be worn in class. No open-toed shoes allowed. Students will wear long pants, no shorts. Long-sleeve shirts are recommended, no tank tops. Students will be required to furnish their own tool bags and required hand tools. A complete list of required items will be provided on Canvas. Anyone who refuses to comply with the rules will be asked to leave the class.

Student Contribution

Students will be expected to participate in all lectures and lab activities involving this course. Lab activities require group participation. Students will work together with partners as groups in a lab setting. 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. **Cell phone** use is **prohibited** during class.

Evaluation & Grading Policy

There will be 170 points possible. Final grades will be based on these point totals.

A	90 – 100%	153– 170	points
B	80 – 89%	136 – 153	points
C	70 – 79%	119 – 135	points
D	60 – 69%	102- 118	points
F	59% or less	101	or less

- Everyone may earn up to 120 points through the daily assignments (15 days @ 8 points per day)
- The Final Exam will be worth 50 points.

I will keep a daily grade sheet for students in this class. Students will be graded based on participation in the class.

Participation will be assessed based on punctuality, safety practices, rollout/ cleanup, professionalism, and

engagement in the day's activities. Eight points can be earned per day, and the rubric is as follows:

Criteria			Points
Punctuality	2 points for being punctual.	0 points for not being punctual.	
Safety	2 points for working safely	0 points for not working safely	
Rollout/Cleanup	1 point for rolling out/cleaning up tools and materials	0 points for not engaging in roll out/cleanup	
Engagement	2 points for being engaged in the activities	0 points for not being engaged in the activities	
Professionalism	1 point for being professional	0 points for not being professional	
8 points total			

Keep in mind, if you are absent 1 class you will lose all 8 points for that day. You can make up a missed class by attending 2 additional classes with prior arrangements with the instructor.

FALL SEMESTER 2024

- Classes Begin Aug 22 & 23
- All-College Holiday Aug 24
- All-College Holiday (Veteran's Day) Nov 11
- No Classes (Fall. Break) Nov 27, 28 and 29
- Final Exams Dec14-20
- Classes End Dec 20
- Grades Due Dec 27
- All-College Holidays Dec 23-Dec 27

Course Calendar

CT 56 Schedule

*Lab courses may be held at the student-built house on 1660 Allard

Week 1. Wed. 8-28 Introductions. Syllabus. Introductions to MML by John Carroll

Week 2. FW 9-4. By class, have read both Ch.1 and Ch. 2 Measuring, Marking, and Layout - The Ten Rules of Measuring and Marking. Homework #1 on Canvas. Intro to Calculator.

Week 3. Wed. 9-11 By class, have read Ch.3 MML- Squaring Up the Job. Homework #2 on Canvas. LAB – Calculator problems– LAB – (Leveling instruments and squaring foundations?) Practice in field with stakes and string.

Week 4. Wed. 9-18 By class, have read Ch.4 MML-Laying Out Foundations. Homework #3 on Canvas. LAB – Foundation Layout. Practice in field with stakes and string. Tentative plans to meet at 1660 Allard St. in Eureka.

Week 5. Wed. 9-25 By class have read Ch.5 MML pp. 86 – 97 Floors. Introduce PowerPoint, “Bolts, Mudsills and Joists...” Lab: Meet at 1660 Allard. Install hold downs and anchor bolts.

Week 6. Wed. 10-2 By class, have read Ch. 5 MML pp. 99-113 Framing. Homework #4 on Canvas. LAB – Floor work at 1660 Allard

Week 7. Wed. 10-09. By class, have read Ch.6 MML Laying Out Basic Roofs. Homework #5 on Canvas.

Week 8. Wed. 10-16. LAB – Practice Roof Framing , PowerPoint.

Week 9. Wed. 10-23 By class, have read Ch.9 Laying Out Roofing. Homework #6 on Canvas. LAB – Roofing

Week 10. Wed. 10-30 LAB- Roofing

Week 11. Wed. 11-6 By class, have read Ch.7 Basic Stair Layout. Homework #7 on Canvas LAB. Practice Building Stairs

Week 12. Wed. 11-13 LAB- Continue Practice of Stairs.

Week 13. Wed. 11-20 Watch Circle video on Canvas. Homework #8 on Canvas. LAB- Arcs and Radii

Week 14. Wed. 12-4. LAB- Trammel Points.

Week 15. 12-18- Final

Wednesday, **Construction BBQ & Potluck in the Woodshop 12:00 – 2:00**

Caveat: As with any construction project schedule, this is subject to change.

Drug and Alcohol Policy

Safety is the number one concern in this program. Construction is a dangerous occupation in and of itself, and when a student is under the influence of drugs or alcohol they are a danger to themselves and everyone else involved. As outlined in the Student Code of Conduct, the use or possession of controlled substances is strictly prohibited. Any student suspected of being under the influence of drugs or alcohol will be removed from class for two class periods. Further disciplinary action, including removal from the program, will be left to the discretion of the instructor.

Professional Conduct and Attire

The student-built house will be constructed off site, under the watchful and judgmental eyes of the public. We are representing the program and the College at all times, and it is for this reason that we must always act in a professional manner. Vulgar and offensive language and attire will not be accepted. Clothing should be clean, orderly, and without language and/or imagery that could reasonably be considered offensive to members of the general public. Tank tops, sleeveless shirts, and shorts are not allowed.

Course Participation Policy

Professionalism and meaningful work are the cornerstones of the construction industry. Every day you will be assessed on punctuality, safety, rollout/cleanup, engagement, and professionalism. Punctuality means that you are ready to work when your shift starts. In order to earn points for punctuality, you are wearing your tool bags and appropriate workwear when class begins.

Safety is a priority in this class. To earn points for safety you must be wearing safety glasses at all times and be using tools and equipment safely. You are working in a manner that keeps you and your fellow students out of danger.

Rollout/cleanup is necessary to provide a safe work space and maintain an orderly jobsite. To earn points for rollout/cleanup, you must be actively engaged in rolling out tools and equipment when they are needed, and putting away tools and equipment when finished. Waste will be put in an appropriate location.

Engagement is necessary to share the burden with our fellow students and ensure that we are completing the necessary tasks for the day. To earn points for engagement you must be actively involved with your crew in the task at hand. Cell phone use, eating, and smoking are allowed only during designated breaks.

Professionalism is crucial to maintain your reputation and the reputation of this program. To earn points for professionalism, you must abstain from using foul and/or derogatory language and imagery.

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: dsp@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

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

Add/Drop Policy

Redwoods Community College District policy states that a student who fails to attend the first meeting of a course without notifying the instructor may be dropped from the class. In addition, Redwoods Community College District has an excessive absence policy which allows instructors to drop a student after the census date and anytime throughout the end of the 10th week of the semester. Each instructor is able to define their own excessive absence criteria. For the purpose of

this class, excessive absence is two lab classes. Nevertheless, IT IS ALWAYS THE STUDENT'S RESPONSIBILITY TO OFFICIALLY DROP OR WITHDRAW from the class. Students that fail to file the necessary forms, even though they stop attending class, will be assigned a failing grade. Students with excessive absences at the end of the term, five absences, will be assigned a failing grade. If you must miss a class, make prior arrangements with me.

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

No AI use in class or on class projects.

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.