

WT-63 Weld Inspection, testing, resistance and pattern cutting (emphasis E7018)

Course Information

Semester & Year: Spring 2025 Course ID & Section #: WT-63 E7728 Instructor's name: Ian Cossar Day/Time of required meetings:

Tuesday: Lecture 5:00 PM – 6:05 PM Room AT106
 Tuesday: Lab 6:15 PM – 9:25 PM Room AT142
 Thursday: Lab 5:00 PM – 9:25 PM Room AT142

Course units: 4

Instructor Contact Information

Office location: AT142A

Office hours: By Appointment

Phone number: 707-476-4595 (Welding lab office phone) Work cell phone given by request

Email address: Ian-Cossar@redwoods.edu (Best way to contact instructor)

Communication notes: All official communication must be emailed to me. This is industry standard in most workplace environments. This way communication is recorded and time stamped. I'm happy to give

out my work cell but I only check it during work hours.

Catalog Description

A course in repair and qualification procedures, inspection, testing, layout, pattern cutting, and resistance welding. Students will produce and analyze welds (emphasis E7018) and cuts on mild, low alloy, and sheet steel to accepted industry standards. Coordinated lab experience is included, and no prior experience in welding is needed. Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

Course Student Learning Outcomes

- 1. Safely weld mild and low alloy steel with oxyacetylene gas and electric arc welding (emphasis E7018).
- 2. Explain the arc and gas welding processes, related to SMAW, OAW, testing, pattern cutting, and resistance welding.

Prerequisites/corequisites/recommended preparation

None Required

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 <u>LIGHT Center</u>, 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 <u>Student Accessibility Support Services (SASS)</u>. If you are unsure whether you qualify, please contact Student Accessibility Support Services (SASS) for a consultation: 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

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.

<u>Online Tutoring Resources</u>

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.comFax 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

<u>Counseling and Advising</u> 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: <u>counseling@redwood.edu</u>

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: <u>KT-staff@redwoods.edu</u>Hours: Summer hours may vary

Basic Needs Center

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

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

<u>Introduction - Library Services for Students - LibGuides at College of the Redwoods</u> promotes information literacy and provides organized information resources.

Multicultural and Equity Center (MCE)

The <u>Multicultural and Equity Center</u> 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 <u>Support</u> provides students with assistance around a variety of tech problems.

Extended Opportunity Programs and Services (EOPS)

<u>EOPS/CARE</u> (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 <u>Veterans Resource Center</u> 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 (<u>CalWorks</u>) 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!

POLICLES FOR THIS CLASS

Attendance

• The college assumes that students will attend every session of a class for which they are registered. If, however, attendance is irregular, students may be dropped from a class.

Excessive absence is defined as a total of absences which equals two weeks in a 16-week semester, for a class meeting twice per week that would equate to 4 absences. For attendance purposes, the college regards a laboratory session as the equivalent of one class meeting. Veterans and financial aid recipients should remember that should they drop below the number of units required of them by the Veterans Administration or financial aid office for any reason during the semester, including being dropped from a class for excessive absences, they will lose part of the government assistance allowances and may be required to repay funds already disbursed. In any event, if an attendance problem does develop, work with the instructor to resolve it. The purpose here is to see what we can do together to keep you in the class to help you master the course content.

Course Attendance Policy

• Attendance will be taken at the start, middle, and the end of each class session. Students who accumulate 4 full class absences during the first 10 weeks of class may be dropped from this class by the instructor. Presence is essential in the workplace and is considered respectful of fellow students and instructors. Less time present means you have less time to complete tasks. If students request a day off in advance or become injured/sick they must let the instructor know before the class missed – unless an emergency – to receive credit for being present. Students who have experienced extenuating circumstances and cannot complete the course can complete & submit the Excused Withdrawal Petition to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available on the Admissions and Records Forms Webpage. Supporting documentation is required. Withdrawing from the class is the sole responsibility of the student. Please notify and discuss withdrawing with the instructor prior to dropping the course.

Classroom/Lab Safety:

 During this class, you will engage in inherently dangerous activities. You will be using tools/equipment that can cause great bodily injury. We take safety seriously and have established a safety policy for all classes. We seek to ensure your safety and that of your peers (and instructor). We will enforce these rules, and hold you accountable to the following:

General Safety Guidelines:

- You must follow all class rules regarding wearing appropriate safety gear (safety glasses, hearing protection, appropriate footwear, and attire, etc.).
- You must follow all class rules regarding the safe and appropriate use of tools and equipment.
- You must follow all instructor directives relative to safety.

Safety Guidelines Relative to Drug/Alcohol Use:

Being under the influence of drugs or alcohol during class/lab is STRICTLY PROHIBITED and is a
clear violation of the student code of conduct. Any student suspected of being under the
influence of drugs or alcohol OR who is displaying behaviors that I deem to be unsafe will be
immediately removed from class, and I will report your removal (and the reasons behind it) to
the Division Dean for further action. Additional action may include referral to the Vice
President/Chief Student Services Officer.

Please be aware that even though marijuana has been legalized in California for recreational
use, it is still strictly forbidden on campus (in any form) and you are still prohibited from being
under the influence while on campus.

Evaluation & Grading Policy

Grading Standard - Grade only, NOT a pass/no pass.

Course Requirements- Nine welds from the weld grade sheet, participation, midterm, and final exam. The welds will be:

```
5-SMAW 7018 (2 out of position) 1-Resistance weld 1-Pattern cut/CNC plasma 2-Start/Stop (1 out of position)
```

The student is expected to treat this class as a job—i.e. be present, on time, on task, and staying the entire required class period unless <u>previous</u> arrangements have been made. It's expected that students will stay the duration of class (or until the instructor says it is ok to go home) and clean the shop (personal and shared area) prior to leaving the classroom. It is required that students finish all weld assignments, participation assignments and tests for points to be awarded. Students are responsible for any information given during class. If a student misses class, it is their responsibility to talk to the instructor/peers to figure out information/assignments they might have missed.

Grade:

50% Weld Assignments (Cuts etc.)

20% Participation

10% Participation Assignments

10% Midterm

10% Final

Grade scale:

Student final course grade is as follows: A (100-92), A- (91.9-90), B+ (89.9-87) B (86.9-82), B- (81.9-80), C+ (79.9-77), C (76.9-70), D (69.9-60), F (59.9-0)

Exams and Assignments

- Exams (20% of your grade) will be multiple choice/ true or false.... or a combination of these. They may be on Canvas or in person. The Final may be substituted with a series of assignments given by the instructor to reward students who show up and work hard at the end of the of the semester. Grades on exams will be posted to Canvass or can be obtained by asking your instructor. Special arrangements will be available to all students (see your instructor).
- Weld Assignments (50% of your grade): Students will maintain their individual weld sheet (provided by instructor). It is recommended that the student leave their weld sheet in the classroom and on the appropriate clipboard which is marked by course. Once a weld is completed by a student it is the students' responsibility to approach the instructor with welds to be graded. Students will work on their own to finish the required grades for this class. A small grade sheet will be attached to the orange weld sheet for each class so students/instructors can keep track of their grades.
- Participation Assignments (10% of your grade): Periodically during the semester (usually

Thursdays) students will be given a task to complete during the class period. This assignment will not be graded, it is simply a task that must be participated in to get participation credit for that day. Welds from participation assignments/tasks can be used as weld assignment grades (see above). To reward hard working students, once the task is completed (granted a student did not miss or come late or leave early from the previous class) students may clean up and go home if okayed by the instructor. Students do not have to go home and can stay and work on their welding if they wish. Participation Assignments are **not excused** even if they occur during an excused absence, but they may be made up. Participation Assignments can be made up at any point during the semester but must be done during class time and cannot be done during other class periods.

A rubric

- A rubric is currently in place to assess the required welds which typically deducts 5% for each weld flaw where a "perfect" industry standard weld would rate 100%. The five percent may be subject to decrease or increase depending on the severity of the flaw. Such flaws may be undercut, porosity, inclusion, excessive reinforcement, under-fill, cold lap, brittle, uneven weld. Weld grade related to number as follows: A+ (100), A (95), A- (90), B+ (87.5), B (85), B- (80) ...and so on.
- A second method of assessment is also used when testing American Welding Society-AWS
 certification of welders. A mechanical bend test is done on these welds and qualifying or
 passing is subject to the AWS parameters and accepted flaws.
- Students will also be graded on improvement and effort. Students will all have varying abilities due to previously taken classes or work experience, therefore improvement and effort will be included in weld assessment. If students work hard and improve, an A grade can be achieved regardless of ability.
- Consistency will also be included in weld grades. One good weld out of ten cannot constitute an A grade given the inconsistency. Instructors may ask students to duplicate a weld to achieve an A grade.

Grade Sheet

• Each student receives a Grade Sheet (orange), which follows them throughout their study in the Welding Program. All the welding that students perform is recorded on this one sheet, and for all courses. It is the student's responsibility to bring welds to the instructor for grading. Students can follow their own welding progress daily. The final grade for the course may be found on the student's WebAdvisor account after all grading is calculated.

Participation

- Participation includes being on time for class. Just like any job, students must be present and on time for class unless previous arrangements have been made. Just like all jobs, if a student contacts the instructor prior to the class and informs them of missing or arriving late no points will be docked. Same goes for leaving early. If a student needs to leave early from a class for a foreseeable event, it's the students' responsibility to inform the instructor prior to the class or at the beginning of class. Just like a job, any foreseeable conflict due to any event i.e. family staying in town, a birthday, a vacation, moving, a sports game, anything at all will be excused if the instructor is contacted prior to the class.
- If a student feels unwell or cannot work safely (whether tired, in pain, or mentally anguished for any reason) inform your instructor and the student is free to leave and will not lose any points.
- Any extraordinary circumstance or emergency will be excused, and no points for participation

- will be docked but must be communicated to the instructor.
- Students must email myself at <u>ian-cossar@redwoods.edu</u> to inform me of missing class for foreseeable absences <u>prior to class</u> and extraordinary/emergency absences at any point in time. But it must be emailed so it is in writing and time stamped (this is a common practice in most workplaces). If a student is going to leave early or is late it is ok if I am informed in other ways albeit it is always best to have things in writing and time stamped via email in case of confusion. I will give out my work cell phone number upon request.
- How your participation grade works (20% or your grade): At the beginning of each class students will receive one point for being on time. During lecture classes (usually Tuesdays) students will receive one point for being present for the lecture and one point for being present and working on welds, cuts, preparing metal, cleaning, or a project. If a student has nothing to do, work with your instructor to find something to work on or no points will be granted. During lab/participation assignment classes (usually Thursday) students will receive two points, one point awarded at two various times (instructor selected) during the class period for being present and working on welds, cuts, preparing metal, cleaning, or a project. If a student has nothing to do, work with your instructor to find something to work on or no points will be granted. Lastly, a fourth point will be granted at the end of class or when the instructor okays students to leave if students have cleaned their personal work area and a portion of shared shop area. This works out to 4 participation points per class. One per class for being on time, two per class for being present and listening/working, and one at the end of class for staying and cleaning. In the event a student is excused from class they will receive all four points. If it is okayed for a student to be late or leave early, they will receive points for the time they are excused.

Employee(s) of the Month

• The most consistent hardworking students will earn employee of the month designation. They will be chosen by the instructor strictly based off participation and earn special privileges (granted they are present and on time) such as first choice of welding booths, first dibs on material cut by the instructor, and occasional other perks like choice of music genre or course focus during lecture. If a designated employee of the month student has an unexcused absence or tardy they will lose their employee of the month status. This program will start after the first full calendar month of class. Criteria for being chosen has nothing to do with ability. *Employee(s) of the month* will have no unexcused absences (and will have arrived on time) for the entire calendar month, participated in all participation assignments, and cleaned personal and shared shop areas prior to leaving class. It's my hope that the entire class will be employees of the month in which case we will rotate privileges on a weekly basis.

Additional Policies

- Missed exams: may be made-up with instructor approval.
- Tardiness: Being late for class can happen to all of us. If you are late, please enter the class
 without disrupting lectures, other students, or instruction. Let the instructor know that you
 are in attendance so you can be marked in.
- Use of personal technological devices: Turn off or silence your phones during lectures and films. Loud music or radio is not allowed unless the entire class approves.

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

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 (<u>AP 5500</u>) 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 <u>2024-2025 College Catalog</u> and <u>CR Board and Administrative</u> Policies.

AI Use Class Policy

This is not an issue in Welding Technologies at this juncture.

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.

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 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

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 <u>Admissions and Records</u>. Your Preferred Name will only be listed in Canvas; this does not change your legal name in our records. See the <u>Student Information</u> Update form-2022.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 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.

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

Del Norte Campus Emergency Procedures

Please review the <u>Crescent City campus emergency map</u> for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information, visit <u>Campus Safety</u>.

Klamath-Trinity Campus Emergency Procedures

Please review the responsibilities of, and procedures used by, the College of the Redwoods, Klamath Trinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction. In the event of an emergency, communication shall be the responsibility of the district employees on scene:

- 1. Dial 911, to notify local agency support such as law enforcement or fire services.
- 2. If safe to do so, notify key administrators, departments, and personnel.
- 3. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
- 4. Contact 530-625-4821 to notify of situation.
- 5. Contact Hoopa Tribal Education Administration office 530-625-4413
- 6. Notify Public Safety 707-476-4111.

In the event of an emergency, the responsible district employee on the scene will:

- 1. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
- 2. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.

- 3. Close all window curtains.
- 4. Get all inside to safe location Kitchen area is best internal location.
- 5. If a police officer or higher official arrives, they will assume command.
- 6. Wait until notice of all is clear before unlocking doors.
- 7. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
- 8. Do not leave site, unless it has been deemed safe by the person in command.