

# Advanced Wood Technology

## Course Information

- Semester and Year: Spring 2026
- Course ID and Section number: CT-55-E9937
- Instructor's name: Leonard Bechler
- Day and time of required meetings: Friday 10:20 am – 4:50 pm
- Location: AT109
- Number of proctored exams: none
- Course units: 2.00

## Instructor Contact Information

- Office location or Online: AT109
- Office hours: Monday 9:00 – 11:00 am
- Phone number: none
- Email address: leonard-bechler@redwoods.edu

## Required Materials:

- Safety PPE

## Catalog Description

- A woodworking lab providing students the opportunity to hone the skills and techniques acquired in CT21A and CT-21B. Individual project work and instruction will be determined through consultation between student and instructor.

## Course Student Learning Outcomes

- Fully plan a project that tests your limits.
- Practice safe use of hand tool and machines.
- Learn to source ideas and processes from historical and current woodworking community.
- Build or restore a hand tool for your permanent kit.
- Serve as a model to CT-21A & CT-21B students.

## Course Calendar

- **List of important Dates:** this information is also included in the various attachments but here they are in one place:
- 01/16 - Last day to register for classes

- 01/17 – semester begins\*
- 01/19 –MLK Day – Campus Closed
- 01/23 – last day to add students to your classes\*
- 02/01 – last day to drop students without a W grade\*
- **02/02 – CENSUS DAY\***
- 02/09 – census rosters are due\*
- 02/ 13 – Lincoln’s Birthday
- 02/16 – President’s Day
- 03/05 – last day to petition to graduate with a spring graduation date
- 04/03 – last day for student/faculty withdrawal
- 03/16 – 03/20 – Spring Break – no classes
- 03/31 – Cesar Chavez Day
- 05/09 – 05/15 – final exams
- 05/15 - Last day to file P/NP
- 05/15 – semester ends
- 05/22 – **GRADES DUE – NO Exceptions**

## Evaluation and Grading Policy

- Free Choice Projects (60%)
- The planning for your free choice project must start right away. The main focus of this course is furniture construction. To get the most out of the lectures you should try to include the assignments into your free choice project. Plan to complete the required projects during the semester. Free choice projects require that you turn in a working drawing, Bill of Material, and Plan of Procedure for review with instructor before starting projects.
- You may incorporate several of the assignments into your free choice project, or they may be done on scrap wood and turned in for a grade. The following skills may be a part of the project you choose.
  1. Sharpen and fine-tune a hand plane.
  2. Construct mortise and tenon joinery on a leg and apron.
  3. Create a cove using the table saw.
  4. Build a drawer with dovetail joinery using the router.
  5. Produce cabriole leg, ogee bracket foot or bandsawn box using the bandsaw.
  6. Make a mortising template or patterning template to use as a router guide.
  7. Turn a cylinder, taper, and bead on the wood lathe, sharpen a lathe tool.
  8. Make a shop aid or jig useful to your future needs.
  9. Apply a clear wood finish to a project.
  10. Review an article from Fine Woodworking Magazine checked-out from C.R. Library. Submit an abstract.
- Involve your instructor in the planning of your project. He can help you plan for the proper materials and sequence of work. If the project is already planned go

over the plans with your instructor prior to beginning. A word of advice: a simple project well executed will provide a greater sense of accomplishment than a large complex project whose results are a bit “lumpy”.

- 3. Clean up (10%)
  - Everyone is expected to clean up after themselves. Please spend 15 minutes each class helping to keep the shop clean and orderly. The instructor views clean-up as a safety issue that all students need to be involved in.
- 4. Work Habits: including on-time Attendance and Participation (20%)
  - Developing good work habits is one of the objectives of any vocational course. Just as you would at a job, arrive at class on time, and ready to work. Work together with your classmates, develop a safety attitude and put in a good effort each time you attend class.
  - Note: Please “check out” with the instructor prior to leaving.
- 5. Final Assessment (10%)
  - Students in all classes are expected to attend and participate in the final assessment that is held at the end of each semester. Each student is expected to present their project to the class. Prior arrangements must be made with the instructor if for any reason you are unable to attend the final.
  - A Non-emergency excuse for absence on final day results in loss of one full course grade.
  - **Final Exam: Friday May 15, 2026 10:00 - 12:00 pm**
  - Students in all classes are expected to attend and participate in the final assessment at the end of the semester. This includes a project review and written final. Prior arrangements must be made with the instructor if for any reason you are unable to attend the final. Non-emergency excuse for absence on final day results in loss of one full course grade
  - Grading/Evaluation: Grades are part of the teaching and learning process. Keep in mind that you earn grades; I do not “give” them to you. I will assess your work according to how well it meets class objectives, fulfills requirements, meets the assignment rubric, and reflects the academic skills expected of college students. It is your responsibility to understand why you have achieved a certain grade and what steps you can take to maintain or improve your grade. Please feel free to consult with me using email or office visits. However, I will ask that, prior to speaking with me about your grade, you wait at least one day so you may carefully review the assignment and the grading rubric in order to clearly present your concerns to me.
  - Course Assessment: Student success in CT- 21B will be assessed in the following areas:
    - Grading Criteria Available Points
    - 1. Manipulative Assignments = 400 100% - 93% = A Excellent
    - 2. Participation = 300 92% - 90% = A-

- Clean up (100) 89% - 87% = B+
- Work Habits (200) 86% - 83% = B
- 4. Homework = 150 82% - 80% = B-
- 5. Tests, Quizzes, Report = 100 79% - 77% = C+
- 6. Final Assessment = 50 76% - 70% = C
- \_\_\_\_\_ 69% - 66% = D
- Total 1000 < 59% = Fail

## Prerequisites/corequisites/ recommended preparation

CT-21A & CT-21B

## Educational Accessibility and 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: Learning Resource Center (Library)

### Del Norte campus

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

### Klamath-Trinity campus

- Phone: 707-476-4280