

Spring 2026

Banner Title

College of the Redwoods

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Course Information

Editor Only Note:

After editing and saving, you can create a PDF of your syllabus page by right clicking on your syllabus page and selecting print. in the Destination drop-down menu, select 'Save as PDF.' Submit this to your department secretary.

If you experience any difficulties, contact Lorraine-Casazza@Redwoods.edu (<mailto:Lorraine-Casazza@Redwoods.edu>) for support. You can also contact Lorraine via telephone during Campus business hours at 707-476-4569.

IMPORTANT NOTE: Anything typed inside of this yellow box will NOT be visible to students and is only visible when Editing the page. Text outside of this box **highlighted in yellow** should be replaced or deleted.

Semester & Year: Spring 2026

Course ID & Section #number: CT-21B Intermediate Wood Technology E9932

Instructor's name: Bert Hafar

Day/Time of required meetings: Lecture Wednesday 05:30PM - 06:35PM, Lab Monday and Wednesday 06:40PM - 09:50PM

Location: AT-109 Wood Lab

Number of proctored exams: 0

Course units: 3

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Instructor Contact Information

Office location or Online: AT-109 Wood Lab

Office hours: Tuesdays and Thursdays 3:00 - 5:00 PM and by appointment

Phone number: (707) 476 - 4100 ext 4623

Email address: bert-hafar@redwoods.edu

Email is the best way to contact me.

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Required Material

Editor Only Note:

List of required textbooks, manuals, or other support materials required for the course.

All student are required to provide the following: Safety glasses, tape measure, pencils, notebook, and completed safety test.

Materials fee: This fee covers the cost of materials for the assigned manipulative projects. You are expected to purchase materials for your personal choice projects i.e., lumber, wood finish, stain, hardware, hinges, etc.

If you have financial issues please talk to me, I may be able to assist you with some materials.

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Catalog Description

Editor Only Note:

Add description from College Catalog; check course description in eLumen (login to view current/Active Course Outline of Record). Message division support person for help if needed.

An intermediate level woodworking course. Project-based instruction includes the set-up and use of woodworking hand tools and machinery, furniture joinery, wood turning, veneering, surface preparation and wood finishing.

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Course Student Learning Outcomes

Editor Only Note:

List CLOs from course outline of record

1. Select and safely use appropriate hand and power tools to perform precise woodworking operations.
2. Construct a complex woodworking project that incorporates a variety of woodworking joints.
3. Research and critically review current topics in woodworking and present the findings.
4. Adjust, manipulate, and safely operate specialized woodworking machinery.

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Course Calendar

Editor Only Note:

Meeting times and locations. You can edit either of the tables below to fit your your needs, then delete the other table.

CT-21B – Intermediate Wood Technology Class Schedule

Week 1 Jan. 19 **Holiday, No Class, Martin Luther King Jr.**

Jan. 21 **Lecture:** Introduction, Review syllabus, Project overview: Shaker Hall Table Canvas LMS.

Lab: *Safety Tests:* General, Hand Tools, Table Saw, Jointer, Planer, Miter Saw

Exercise #1: BOM Table design, Shaker Hall table.

Week 2 Jan. 26 **Lab:** Create a Bill of Materials for the Hall Table

Work on safety tests

Exercise #2: Leg Stock Preparation

Jan. 28 **Lecture:** Jointer Operations: Tapering a leg.

Lab: **Exercise #3** Jointer Tapering

Complete safety tests, Complete BOM, Continue Exercises #1 and #2.

Homework assignment #1

NO SAFETY TEST SIGNED AND ON FILE = NO WORK IN THE SHOP!

Week 3 Feb. 2 Lab: Table legs and sharpening

Homework Assignment #2.

Feb. 4 Lecture: Mortise and Tenon Joinery

Lab: Exercise #4 : Mortises

Front apron/rail opening/glue, Mortises, Cut leg tapers,

Week 4 Feb. 9 Lab: Mortise layout, cut mortises.

Feb. 11 Lecture: Tenoning Techniques: Creating the Front Apron

Exercise #5: Front Apron Preparation

Exercise #6: Tenons

Lab: Cut apron tenons, dry fit leg/apron framework.

Homework: Assignment #3

Project work. Leg clean-up, scrape, and true tapers.

Week 5 Feb. 16 **All College Holiday, Presidents Day, No Class**

Feb. 18 Lecture: Routers #1: Sliding Dovetails, patterns, pulls, etc.

Exercise #7: Sliding dovetail

Cut sliding dovetails for drawer rails. Dry fit and glue table base.

Homework: Assignment #4

Week 6 Feb. 23 Lab: Project work

Feb. 25 Lecture: Routers #2: Drawers, Cases: The half-blind dovetail Jig

Reading Assignment: Handout

Lab: Dovetail drawer parts, plywood bottom, assemble drawer.

Week 7 Mar. 2 Lab: Exercise #9: Make a Drawer.

Exercise #10: Making a Table Top: wood selection and glue-up.

Mar. 4 Lecture: Edge Beading, Table top fasteners,, Drawer Guides, Drawer Stop

Week 8 Mar. 9 Lab: Project work: Edge Bead, Table Top fastener grooves

Mar. 11 Midterm Review

Lecture: Band Saw #1: Straight Cuts – set-up, safety, ripping

and veneer sawing

Exercise #10: Resaw operation

Homework Assignment # 5

Note: All previous Homework assignments Due today! Partial credit if three

or more weeks past assigned date!

Spring Break March 16 - 20 No Classes.

Week 9 Mar. 23 Lab: Project work **MIDTERM EXAM DUE!**

Mar. 25 Lecture: Veneering techniques: Shop-sawn, Cutting, laying, glues, vacuum bagging

Project work

Assignment #7

Week 10 Mar. 30 Lab: Project work

Apr. 1 Band Saw #2: Curved Cuts -- Ogee bracket foot, cabriole leg, Circle Cutting Jig.

Exercise #12: Bandsaw Operation. Cabriole leg, Ogee bracket foot, etc.

Week 11 Apr. 6 Lab: Project work

Apr. 8 Lecture: Lathe Part 1 - Overview and safety, Spindle turning

Lab: *Spindle turn a mallet or similar object.*

Exercise #13: Turned Object.

Homework Assignment #6

Week 12 Apr. 13 **Assignment: Literature Review-oral presentations.**

Lab: Project work

Apr. 15 Lecture: Lathe Part 2: Face plates, chucks, and special holding methods.

Exercise #13: Part 2: Turn a drawer pull, sharpen a lathe tool.

Homework assignment #7 Due

Week 13 Apr. 20 Lab: Project work

Literature review: Question/answer and overview. ***Due next week!***

Apr. 22 Lecture: Furniture hardware: Table top fasteners, drawer guides, etc.

Exercise #14: Properly attach a table top.

Week 14 Apr. 27 Lab: **Literature Review Due!**

Apr. 29 Lecture: Advanced Tablesaw; Coving and Molding

Exercise #11: Tablesaw Cove

Reading Assignment: Handout

Week 15 May 4 Lab: Project work: Protective finishes.

Exercise #15: Preparing your project for final finish; scrape, sand, repair.

May 6 **LAST WORK DAY!**

Lecture: Advanced surface preparation: hand scrapers, hot iron.

Repairing your mistakes: Burn-in, Router inlay, fill sticks, etc.

Exercise #16: Apply a protective finish to your project

Week 16 May 11 **Final Exam: 6:00 – 8:00pm**

Project Evaluation, shop cleanup.

REMEMBER THE FINAL EXAM IS 10% of your grade! Don't miss it!

Caveat: The above schedule and procedures are subject to change in the event of extenuating circumstances.

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Editor Only Note:

Should include info such as final grade calculations, rubrics, late assignment policy, and other grading practices

Evaluation & Grading Policy

COURSE REQUIREMENTS

1. & 2. Assigned and Free Choice Projects (40%)

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.

The required assignments are listed below. You may incorporate several of the assignments into your free choice project, or they may be done on scrap wood and submitted for a grade. To get the most out of the lectures the assigned projects should be completed following the lecture.

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 a cabriole leg, ogee bracket foot or band sawn 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 a wood working periodical. Write and submit an abstract.

Involve your instructor in the planning of your project. They can help you plan for the proper materials and sequence of work. If the project is previously printed please review 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 that is poorly executed or unfinished.

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 to 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. Homework (15%)

Homework reading for this course will consist primarily of printed hand-outs and internet links. Homework assignments related to lectures and readings are available via the Canvas LMS. The completed assignments may be submitted via Canvas or on paper.

6. Tests and Quizzes (10%)

Each student is required to attend a safety lecture and complete a safety test for each power tool prior to using the tools and machinery in the C.R. woodshop.

7. Final Assessment (5%)

Students in all classes are expected to attend and participate in the final assessment that is held at the end of each semester. This includes a project review and written final. 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: Monday May 11th, 2026 6:00 - 8:00 pm

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
3. Clean up = 50		89% - 87% = B+
4. Work Habits = 50		86% - 83% = B
3. Homework = 50		82% - 80% = B-
4. Tests, Quizzes, Report = 100		79% - 77% = C+
5. Final Assessment = 50		76% - 70% = C
		69% - 66% = D

Total 1000		

Student Feedback Policy

Timely feedback is important, I strive to return graded material as soon as possible. Feedback regarding course performance, homework, and manipulative assignments may be discussed during my office hours or by appointment. Your achievements and

points

earned on projects will be recorded on the Canvas LMS. Homework and written assignments have recommended completion dates that correspond to each relevant lecture. It is highly recommended that woodworking students complete their assignments before the due date listed on Canvas. Written homework may be submitted up to two weeks after the assigned date for full credit. Woodworking requires cumulative learning and practice; therefore, manipulative assignments may be repeated as necessary to improve your score. I will grade and return these projects as quickly as I can.

All feedback is aimed to be delivered in a timely manner and with constructive intent.

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Prerequisites / Co-requisites / Recommended Preparation

Editor Only Note:

If applicable, list prerequisites, corequisites and recommended preparation in paragraph form, If none, write: **None**

CT-21A Survey of Wood Technology.

All woodworking students are asked to begin their woodworking experience at CR by taking CT-21A, regardless of past experience or skill. This will ensure familiarity with the CR equipment, safety procedures and organizational structure.

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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 \(https://www.redwoods.edu/services/sass/light.php\)](https://www.redwoods.edu/services/sass/light.php), counseling and advising, alternate formats of course materials (e.g. audio books or 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 \(SASS\) \(https://www.redwoods.edu/services/sass/index.php\)](https://www.redwoods.edu/services/sass/index.php).

If you are unsure whether you qualify, please contact SASS for a consultation: [SASS@redwoods.edu \(mailto:SASS@redwoods.edu\)](mailto:SASS@redwoods.edu)

SASS office locations and phone numbers

Eureka campus

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

Del Norte campus

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

Klamath-Trinity campus

- 707-476-4280

GENERAL INFORMATION

Safety: Lab safety and coworker safety are your top priorities as a student woodworker.

In addition to machine specific safety rules, always keep in mind the following rules, and work toward developing a safety attitude.

- Wear safety glasses at all times.
- Use all the safety guards and other safety devices.
- Have the instructor check your special setups.
- Do not work with any tools or machinery unless the instructor is present.
- Do not work if you are intoxicated or under the influence of drugs.
- Report all accidents and injuries to the instructor immediately.

Student Code of Conduct Standards

All College of the Redwoods students are encouraged to familiarize themselves with, and conform to, college rules and regulations governing personal conduct on all campuses of the district as set forth in the current college catalog.

Electronic Devices

Do not answer your phone or engage in texting, gaming, or surfing the web during class time.

Ear buds, wired headphones are prohibited—they are a safety hazard.

General Guidelines

Do not come to class stoned, drunk, or otherwise chemically compromised. If you do, I will ask you to leave. The wood lab is inherently dangerous and is no place to be in an altered state of mind. If you have a medical condition or are using medication prescribed by a physician that may affect your ability to function in the lab please discuss this with me.

NOTE: You may be withdrawn from this course for non-participation if you miss three class meetings or three manipulative assignments. Your instructor may drop you after the census date and prior to the 10th week of the term for non-participation.

CAVEAT: The schedule and procedures for this course are subject to change in the event of extenuating circumstances.

Editor Only Note:

ARE YOU LOOKING FOR THE OPTIONAL LANGUAGE?

These include information on Academic Integrity, Disruptive Behavior, AI Class Use Policy, and Inclusive Language. You can find them by clicking on the QuickStart Wizard button again, selecting **Blocks** on the right hand menu, then selecting **Syllabus**. There you will see the optional

language blocks, which you can add to your template just by clicking on all the ones you want and then clicking **+ Add to Editor**.