

Course Syllabus  
Vocational 7 / 8  
Chestnut Ridge

Teacher: **Mr. Harmon**

School Phone: **330-893-2413 ext. 1607**

Email: **[rharmon@eastholmes.org](mailto:rharmon@eastholmes.org)**

Chestnut Ridge Technology Website: <https://sites.google.com/site/rochestechsite/home?authuser=0>

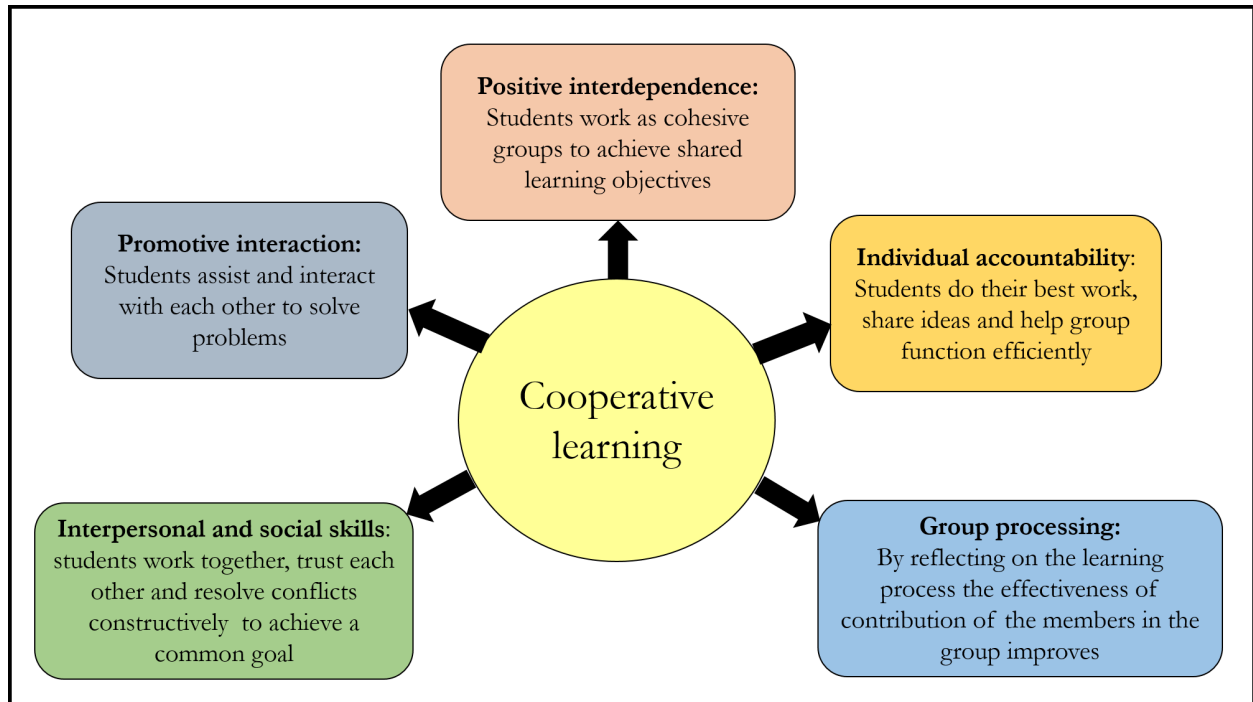
You can access the website on our laptops by:

- Clicking on the shortcut at the top of the title bar.
- Click the favorites star at the top right of the screen.

### **Course Objectives**

#### **Students will:**

- recall tool and shop safety.
- describe the materials and processes involved in furniture construction.
- identify what job opportunities are involved in the field of woodworking.
- perform the Basic Elements of Cooperative Teams. What is Cooperative Learning?



- model the character qualities they need to meet the challenges of the woodworking industry.
- model problem-solving and critical thinking skills.
- display a working knowledge of Fusion 360, a Computer Aided Design / 3D modeling software.
- recall how to use and be certified in using a firearm or primitive weapon to become a safe hunter. (Grade 7)
- explain the core concepts of Financial Literacy (Grade 7)

## **Course Description**

### **Grade 7**

This is a full year course designed to introduce the student to the world of woodworking, hunter safety, financial literacy, and Computer Aided Design. The emphasis will be on learning the safe operation of hand and power tools along with general shop safety. This course is also designed to allow students to explore job opportunities, experience industrial processes, and generate interest in the career of woodworking. This is a hands-on learning class where the students will enjoy working in a shop setting. The projects the students will be constructing include a pig cutting board and then a tapered leg table. Students are required to pay for the wood they use for their projects. The last day for project completion will be the end of the second week in May (due to softball games, Ascension Day, field trips, field days, graduation days, etc...)

Topics:	Woodworking Careers
	Shop Safety
	Hand Tool Safety
	Machine and Power Tool Safety and Operation
	Wood Types and Identification
	Bill of Materials
	Joinery (edge, butt, dado, rabbit)
	Fasteners (brad nailer / pocket hole)
	Sanding, Sanding Material, and the Sanding Sequence
	Applying Finish / Types of Finish
	Computer Aided Design / 3D Modeling
	Hunter Safety
	Financial Literacy

### **Grade 8**

This full year course is a continuation of the Grade 7 class. Students will review what they learned in Grade 7 with an emphasis on incorporating more joinery and moving parts (drawers). Students will learn how to build a drawer with a drawer glide, use a Keller Jig to produce dovetail drawers, and also learn how to use more machines and power tools. The projects the students will be required to build will be a model bedroom and a nightstand. Students are required to pay for the wood and hardware they use for their project. The last day for project completion will be the end of the second week in May (due to softball games, Ascension Day, field trips, field days, graduation days, etc...).

Topics:	Shop Safety
	Hand Tool Safety
	Machine and Power Tool Safety and Operation
	Wood Types and Identification
	Bill of Materials
	Joinery (edge, butt, dado, rabbet, through dovetail)
	Keller Jig (How to route the tails and pins)
	Fasteners (brad nailer / pocket hole)
	Sanding, Sanding Material, and the Sanding Sequence
	Applying Finish / Types of Finish
	Computer Aided Design / 3D Modeling

## **Grading**

Grades will consist of quizzes, power tool and machine safety quizzes, written assignments, wood projects, CAD drawings, and 3D prints.

## **Classroom Expectations**

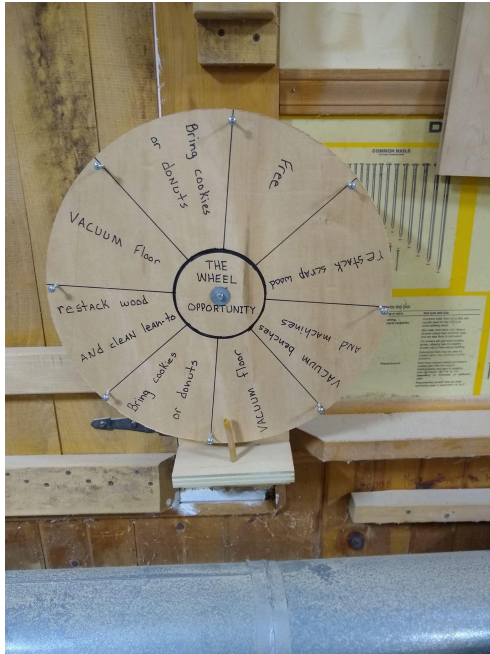
Students will:

1. know and apply the "Golden Rule".
2. lock the door if you are the last one in the building. Remember, we do not let strangers in. If you don't know who they are, don't open the door.
3. sit in their assigned seats upon entering the lab.
4. have a pencil, tape measure, and earbuds in class every day.
5. not speak Dutch in / during class and during school hours. Why? Let's discuss!
6. know when they can walk across the softball field to board the bus or to return to Chestnut Ridge Elementary, and when they can not.
  - Grass is wet
  - Grass is snow covered
7. **take pride in their work and do the very best they can. Commit to excellence.** See "The Values We Protect" handout.
8. know the proper procedures for fire, tornado, intruder, and bomb threat drills.
9. Not chewing gum in class.
10. learn and demonstrate the safe and proper way to use tools, machines, and materials.
11. use safety glasses when using or around machines.
12. **learn to be good listeners who can follow directions.** Ask if you don't understand! Let's discuss! See #13
13. **communicate with the instructor before making changes to instructions or procedures.** Let's discuss!
14. perform their assigned cleanup duties at the end of each class period.
15. demonstrate honesty and trustworthiness when using or around tools, machines, and materials.
16. groom their hair in a way that will keep it out of their eyes. If it does not meet the instructors approval, the student will not use any tools or machines in the lab.
17. demonstrate self-discipline, responsibility, and perseverance through the completion of various lab activities and projects. Failure is not an option. You may redo most written assignments, drawings, posters, etc... for full credit. However, tests will not be retaken for full credit.
18. be respectful.
19. be punctual.
20. understand what cooperative learning is. What is it? Students will possess a "count on me" mentality.
21. demonstrate what it takes to become a marketable employee (poster "How character applies in the workplace).
22. "THINK" before you speak:
  - T = True (hear say, gossip, misunderstanding, lying)
  - Let's discuss!
  - H = Helpful
  - I = Inspiring
  - N = Necessary
  - K = Kind
23. not **possess** electronic personal devices in the lab unless it is directed by the instructor.
24. be responsible for making up missed assignments (financial literacy - beginning of 4th nine weeks). See me before you leave for vacation or when you return from vacation.

**Students who do not follow directions (ie... speak dutch, no safety glasses, don't follow directions, not following safety rules, spinning the wheel without permission, etc...) will be asked to spin the "Wheel of Opportunity"(see the next page). Whatever chore it lands on, the student will complete either that period or the next period they have class.**

## The Wheel of Opportunity

The "Wheel of Opportunity" consists of the following tasks: restacking scrap wood pile in the shop, restacking the woodpile in the lean to, vacuuming the shop floor, vacuum benches and machines, and bringing cookies or donuts for the class.



## Leader In Me

Habit 1 - Be ProActive:

Habit 2 - Begin With the End In Mind

Habit 3 - Put First Things First

Habit 4 - Think Win-Win

Habit 5 - Seek First to Understand, Then to be Understood

Habit 6 - Synergize

Habit 7 - Sharpen the Saw

You're in Charge

Have a Plan

Work First, Then Play

Everyone Can Win

Listen Before You Talk

Together is Better

Balance Feels Best

I can!

Goal Setting

Acting on Goals

Seek Mutual Benefit

Turn Filters off

(experiences, bias, prejudices, values)

Whole is Greater than the sum of the Parts. Creative Cooperation.

Value Differences

Body, Mind, Heart, & Spirit Need

Constant Renewal

## Grading Scale

A+ 98-100

A 93-97

A- 90-92

B+ 87-89

B 83-86

B- 80-82

C+ 77-79

C 73-76

C- 70-72

D+ 67-69

D 63-66

D- 60-62

F 59 and Below

**Course Pledge**

I, (student's first and last name) \_\_\_\_\_ understand and agree to follow the classroom expectations. I understand that not demonstrating these skills and procedures will not only hinder my chances for success, but could also result in external discipline measures set forth by Mr. Harmon.

Signature of Student \_\_\_\_\_

I have read, agree with, and will encourage my (son / daughter) to cooperate and abide by the aforementioned classroom expectations.

Signature of Parent or Guardian \_\_\_\_\_

This pledge must be returned by (date) \_\_\_\_\_

Last 4 digits of your son's SS# \_\_\_\_\_ (to register for hunter safety course, **grade 7 only**)

County you live in \_\_\_\_\_ (to register for hunter safety course, **grade 7 only**)