Syllabus: Wood Fabrication 2

Course Overview:

This course is a continuation of the Wood Fabrication sequence using modern materials and processes. Students will learn advanced skills related to cabinet and furniture making, the use of panel products and jigs and fixtures. Students will explore career opportunities in wood product manufacturing.

Department: Technology & Engineering	**Department/Course Website (if applicable):**
Course Number: TEC3040	**Instructor:** Todd Faulhaber
Credits Earned/Length of Course: .5 credits / semester course	**Office Hours:** Lunch time and after school
Prerequisites: Wood Fabrication 1 with a "C" or better	**Instructor Contact Info:** Office: 204-3706 tafaulhaber@madison.k12.wi.us
Required Materials: pencil	**Other:**

Course Standards:

- Common Core State Standards for Literacy in All Subjects
- Common Core State Standards for Mathematics -- Standards for Mathematical Practice
- Wisconsin Common Career Technical Core Standards
- Wisconsin Standards for Technology and Engineering

Course Assessment(s):

- Safety Tests (100% accuracy)
- Summative assessments
- Project assessments
- Employability skills
- Formative assessments
- Final assessment

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Course Outline (including Unit(s) of Time and Essential Questions):

Unit of Time days/hours	Unit Title	Essential Questions
1	Unit #1 Class Expectations	How will I be successful in class? How will I will be graded?
5	Unit #2 SAFETY & Machine Operations	What are the general safety rules? What are specific machine safety & Operations?
3	Unit #3 Measurement	How will I use a caliper and a height gage accuracy to .010, ruler/scale to 32nd? How will I measure real stuff?
3	Unit #4 Properties of Material	Can I describe the properties of wood/sheet goods?
11	Unit #5 Project Management	How will I sketch and read drawings? How will I construct a Bill Of Materials? How will I write a Plan Of Procedure? How will I know what effective time management looks like? How will I incorporate new knowledge into my project management?
7	Unit #6 Assembly Techniques	How will I make and choose joinery for drawers? How will I make and choose joinery for doors? How will I make and choose joinery for frames? How will I make and choose joinery for cabinet carcass?
7	Unit #7 Jigs and Fixtures	How will I learn the use and benefits of jigs and fixtures?

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50	Unit #8 Project Fabrication	How will I demonstrate and apply my knowledge of fabrication techniques to build a project?
3	Unit #9 Finishing.	How will I prepare wood for a finish? How will I apply a finish?
Ongoing	Career Development/ 21st Century Skills	How do the skills and knowledge I am learning in this class get applied within a job setting? How can I work with a team to develop an answer to a question or solution to problem? How I apply the skills that my future employers will value?
90	days/hours	

Texts, Technology, and Resources:
Printed resources as provided by Instructor

Grading Policy:
Grading Percentages:

- 40% Employability Skills (see behavior policy below)
- 30% Class Work (projects & assignments)
- 20% Assessments (tests, quizzes & safety)
- 10% End of Course Assessment

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Behavior Policy:

Employability Conduct Grade
You will be graded on your Employability Skills in this class. These skills will ultimately have a great affect on your employment success. Employability Skills counts for 40% of your final grade. You have the potential to earn 10 points daily.

Positive Employability Conduct includes the following:
Being on time and ready to learn
Sitting and listening respectfully & attentively during instruction
Wearing safety glasses at **ALL** times while working in the Lab
Participating in Lab cleanup
Observing **ALL** safety rules in the Lab
Keeping busy working on Lab assignments
Working well with others as assigned in the classroom and Lab
Use of appropriate and respectful language

Inappropriate Behavior:
-10 pts. Unexcused absence
-5 pts. Not wearing safety glasses when reminded
-5 pts. Play fighting or any physically inappropriate behavior
-4 pts. Leaving lab/class without permission
-8-1 pts. Sitting around doing nothing (2 points every 15 mins)
-2 pts. Disrupting the learning process
-2 pts. Inappropriate use of personal electronic devices in class
-2 pts. Treating others in a disrespectful manner
-2 pts. Unacceptable behavior & language in class
-2 pts. Treating tools or facilities disrespectfully
-2 pts. Not participating in clean-up duties

NOTE: Horseplay, vandalism, fighting, and blatant safety violations will be handled at the Principal level

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Safety First!
All students enrolled in a Technology & Engineering course will complete an individual Safety Manual and complete with 100% accuracy individual machine safety tests before being allowed to operate lab machinery.

1. ***Attentive listening is expected***
2. Don't be afraid to ask questions
3. Learn and follow all lab safety rules
4. No food in lab or classroom
5. No Cell Phones. They will be collected and given to the office
6. No Hats. School policy.
7. No headphones or listening devices. Not safe!
8. Be on time. If you come in late, you must have a pass.
9. You are responsible for all obligations ($Fees$) plus additional materials
10. All Madison Technology Education students and Parent or Guardian must read and sign the Lab Behavior Expectations form.
11. All MMSD Technology Education students must read and sign the Student Safety Pledge Form in the safety manual.
12. **Safety glasses will be worn when students are working in the lab. No exceptions! Students who do not wear glasses in the lab must complete a safety review sheet before being allowed back in the class.**
13. No backpacks, athletic bags, pull carts, etc. are allowed in the lab. Preferably not in the classroom either. There have been many instances of theft of items left in the classroom. If you must bring something of value for another class, make sure it is locked in my office before going into lab.
14. Textbooks are kept in the room. Books are available for overnight check out with teacher permission.
15. Missed Assignments:
    It is YOUR responsibility to check with me (your instructor), either before or after class, about what you missed on the day(s) you are absent from class. Lab activities must be made up at lunch or before or after school. Take an active part in your education, check your grades regularly.
16. You may not leave the Lab for any reason without permission.
17. We will all be together in one location; either in the lab or the classroom.
18. No standing in the hallway, do not interrupt any other class.
19. Bathrooms: Go before you get to class. You are only to go to the bathroom in an emergency.
20. If you have this class after lunch, eat lunch during lunch and do not show up late.
21. If you get injured, let me know immediately!!!
22. In lab, keep busy!! If not, find me for something to do.
23. If we are doing a demonstration, you will pay attention.
24. Assigned seats will be given to each student.
25. Folders are available for you to store your work in the file area.

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26. Tools must be turned in and clean after class. If not turned in you will be charged for tools.
27. Help with clean up. Learn where tools are located and put them back in the proper place when finished with them. If the shop is not cleaned up at the end of class, lab privileges will be revoked.
28. We will clean up the last 10-15 minutes of class. Please help your classmates complete all clean up duties.
29. The first and last 15 minutes of class no passes will be issued.

Questions???
Contact your Instructor