



Syllabus: Fundamentals of Construction

Course Overview:

In this hands-on focused light construction course, students will prepare for a career in the skilled trades. Through actual planning and building, this class will design and construct a small structure. Topics covered include: job site safety, drafting, construction codes and fundamentals.

Department: Technology & Engineering	Department/Course Website (if applicable): Insert here
Course Number: TEC3030	Instructor: Mr. Mossholder
Credits Earned/Length of Course: 1.0 credits / Yearlong course	Office Hours: 3rd hour, 7th hour, & lunch
Prerequisites: Successful students will completed Wood Fabrication 1 or Home Maintenance and Improvement with a "C" or better.	Instructor Contact Info: Mr. Mossholder Technology and Engineering Teacher 2222 East Washington Avenue Madison, Wisconsin 53704 ddmossholder@madison.k12.wi.us office: 608-204-1690
Required Materials: Insert here	Other: Insert here

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



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- Project assessments
- Employability skills
- Formative assessments

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

Unit of Time	Unit Title	Essential Questions
1	Unit #1 Class Expectations	I will know how to be successful in class & how I will be graded
3	Unit #2 SAFETY! Tool, personal & Machine Operations	I will know general safety rules, know specific machine safety & operations, know specific construction safety & tool safety
2	Unit #3 Measurement	I will reinforce my basic measurement skills
2	Unit #4 Preparing to build: Drawings	I will learn to read a basic set of house plans, calculate a materials list
5	Unit #5 Foundations	I will understand concrete as a foundational material
60	Unit #6 Wood frame carpentry	I will learn material properties, fastening techniques, structural elements and assembly
50	Unit #7 Exterior elements	I will learn about and how to install windows, doors, siding and roof coverings
55	Unit #8 Completing the Structure	I will learn about and how to install insulation, paint, electrical, flooring, and wall coverings
1	Unit #9 Assessing the finished structure	I will reflect on the construction process, choices made, and the end result



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3	Unit #10 Careers in Construction	I will research and report on the current job market, salaries, and possible routes of education and methods of advancement
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?
180	hours/days	

Texts, Technology, and Resources:

Safety documents
Handouts

Grading Policy:

Grading Percentages:

- 40% Lab Grade- Based on performance in shop, employability grade.
- 30% Class work
- 20% Tests and Quizzes
- 10% Final Exam

Grading scale percentages:

- 100-90 A
- 89-80 B
- 79-70 C
- 69-60 D
- 60 and lower Failure

Behavior Policy:

Employability Conduct Grade

You will be graded on Employability Conduct in this class. These skills will ultimately have a great affect on your employment success. Employability Conduct counts for 40%



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of your final grade. You have the potential to earn daily points. Every week students will fill out a daily activity log. This will also be part of your employability grade.

Employability Conduct includes the following:

Being on time and ready to learn
Sitting and listening respectfully during lecture
Wearing safety glasses at **ALL** times in the Lab
Participating in Lab and Classroom 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 appropriate and respectful language

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.



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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.

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



Syllabus: Fundamentals of Construction Woods Manufacturing & Construction Syllabus

BEHAVIOR MATRIX – TECHNOLOGY AND ENGINEERING

P PERSONAL RESPONSIBILITY	<ol style="list-style-type: none"> 1. On time 2. Completes work on time 3. Active learner 4. Off and away 5. Team player 6. Cleans up after self and lab 7. Brings pencil and paper 8. Attends all classes 9. Be safe towards self and others
R RESPECT	<ol style="list-style-type: none"> 1. Active listener 2. Focused 3. Eliminating derogatory language 4. Respect for facility: clean it, respect for machines capabilities 5. Help everyone to be safe 6. Quiet when teacher is talking 7. Allow the teacher to pace the learning
I INTEGRITY	<ol style="list-style-type: none"> 1. Do your own work 2. Be patient – wait your turn 3. Share equipment 4. Clean up
D DETERMINATION	<ol style="list-style-type: none"> 1. Earn the grade you want (your best possible) 2. Set goals, be a learner 3. Ask for help 4. Learn from mistakes and from other's mistakes
E EXCELLENCE	<ol style="list-style-type: none"> 1. Challenge yourself to be better 2. Aim high 3. Strive for quality work 4. Do more than what is asked



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SkillsUSA is a partnership of students, teachers and industry representatives, working together to ensure America has a skilled work force. SkillsUSA helps each student excel.

SkillsUSA is a national nonprofit organization serving teachers and high school and college students who are preparing for careers in trade, technical and skilled service occupations, including health occupations.

SkillsUSA is a club activity here at East. It meets once a week and prepares students for skill competition and professionalism in a future career. It allows participants to demonstrate their desire for higher level achievement in technical professions.

Career and Applied Technology Education students are ***encouraged, but not required*** to participate in SkillsUSA.

Questions???