

Construction I

Instructor: Joe Bormann

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Course Description

Construction I:

Provides students with the opportunity to explore a wide variety of construction techniques related to residential construction and related career opportunities. This course will teach proper safety and application of tools. Students will learn starting from the ground up, footers, foundation walls, floor plans, wall framing and related components. Mathematical components and equations will be applied to the construction process.

Safety glasses are required at all times if anyone is working/using tools/equipment in the room. A fee will be assessed for material consumed for optional projects. If this is a financial burden, please speak to the instructor, guidance counselor, or principal. Cost will not prevent a student from involvement in this program!

Standards

This course is designed in alignment with the Iowa Core Curriculum 21st century technological literacy skills, as well as the ITEA Standards for Technological Literacy.

Assessments

Assessments may include, but not limited to: formative, summative, peer, and self-assessment.

Quizzes- Students will have to pass a safety quiz for each of the machines that they will be operating in the class. A student is only considered to have passed the quiz if they score 100%.

Content

Class topics may include, but not limited to:

- Orientation to the Trade
- Construction Safety
- Construction Math and Measuring
- Hand Tools
- Power Tools and Equipment
- Blueprint Reading
- House Planning/Codes/Restrictions
- Surveying
- Foundation Systems
- Floor Systems
- Walls and Ceilings
- Doors and Windows
- Exterior Coverings
- Roofing Design and Materials
- Career Opportunities

Instructional Strategies

Strategies may include, but not limited to individual, group, assignments, and projects.

Resources

Resources may include, but not limited to books, demonstrations, guest speakers, websites, and handouts.

Academic/Behavioral Expectations

Be your best self. Exhibit leadership and curiosity. Do not be a bystander; engage in your own learning. Support others by sharing your learning.