

Introduction to Construction and Technical Trades

COURSE SYLLABUS

Central High School; 2023-2024 Academic School Year

Course Description:

The major focus of this course is to expose students to planning, designing, building, and related career options within the construction and architecture industries. Students participating in the course will work with their hands and use basic tools and equipment. Students' experiences will involve learning safety, plan/blueprint reading, basic drafting (including computer-based drafting), surveying, concrete, framing, cost estimation, electrical, plumbing and HVAC, finish work, basic carpentry, and introductory welding. Students will also be required to apply basic math principles related to the industries

Learning Outcomes:

- Research and explore career opportunities in the architecture and construction fields.
- Demonstrate how to create and read construction documents
- Demonstrate estimating skills
- Apply safety practices and procedures
- Demonstrate understanding of technical trades (electrical, plumbing, HVAC, framing, etc.).

Grading Rubrics:

When assignments are graded on a rubric, students will be provided with a rubric for that assignment. However, it should be noted that in all cases students should plan to be graded on the following factors:

- 1) Content – Did students adhere to the directions and follow all required steps/instructions? Did the students complete the project?
- 2) Professionalism – This portion will evaluate factors such as the student's effort, their adherence to safety standards, written and verbal communication, respect toward team members and others, and completing the work on time. (Note: The professionalism grade will not be based on the student's skill within a specific construction trade (e.g., how good the student is at the technical skill of plumbing.). Students who make an honest effort and attempt all the skill-based exercises in a professional manner will be eligible for full credit on assignments.

Grading:

Grading Scale:

A 90%

B 80%

C 70%

D 60%

F 50%

Grading

This class is a point's only class with nothing is weighted to skew the grade in any way. That means that the points a student earns throughout the class are the points that students have.

Redoes and Correction:

The goal of this class is to expose students to potential trades and career opportunities within the industry and for students to gain an introductory knowledge the industry and those applicable trades. To further this goal, in most cases, students will be given the opportunity to redo assignments and make up lost points on assignments and quizzes if they turned the assignment in on time and don't have any missing assignments. (*I do accept late work, but students will not have the opportunity to redo late assignments.*) Students will not be allowed to make up points on assignments which were turned in during the previous quarter/semester. Once grades are submitted for the quarter/semester, those grades are final. Students wishing to make-up lost points should notify the instructor for directions on what to submit.

Safety:

In this class we will use both hand and power tools to complete projects. For the protection of all individuals, it is imperative students understand and use proper safety protocol. Before students are permitted to use those tools or participate in the completion of those projects, they will be required to learn and demonstrate an understanding of the safety requirements. If students fail to follow the safety requirements, fail to follow instructions, or behave in any way that gives me reason to question whether they can be trusted to perform tasks in a safe manner, those students may not be permitted to perform certain tasks or will be removed from the shop entirely. If students are removed from the shop because of deliberate and unsafe behavior, they may take a failing grade for that project and will not be permitted back in the shop until they have sufficiently demonstrated that future behavior will comply with the safety requirements. Repeated unsafe behavior may result in permanent removal from the shop and a failing grade for the course.

Attendance:

Students who are absent should follow up with their teacher either in person or through electronic means (*email* or *Canvas*) to determine what was missed and whether the work can be made up. It is the student's responsibility to make up work as per school district policy.