

PRINCIPLES of CONSTRUCTION

Course Syllabus

Instructor: Gene Schramme
Conference Period: 10:15 - 10:55am

Prerequisite: N/A
Credits: 1 **Placement:** 9 - 12

TEKS Objectives – [§130.43 sub chapter B](#)
 Architecture & Construction

Classroom Text: NCCER *Core Curriculum Introductory to Craft Skills*

Principles of Construction provides an overview to the various fields of Construction and is intended to lay a solid foundation for those students entering construction careers or craft skilled areas. The course provides a strong knowledge of construction safety, construction math, common hand and power tools, reading blueprints, professional communication, employability and materials handling skills. This is a semester-long course.



Required materials: iPads or Wi-Fi device, appropriate attire, closed-toe shoes, etc.

<u>Major Activities/Units of Study</u>	<u>*schedule permitting</u>
Basic Safety	Blueprint Reading
Math Applications in Construction	Reading Blueprints, drawing/drafting
Hand Tools & Power Tools	*Guest Speakers from Industry
	Basic Employability Skills
	Basic Communication Skills

This is a rigorous schedule; we will cover all the modules for NCCER Core Certification

NCCER Core Curriculum CERTIFICATION

Upon successful completion of the major units of study (course modules) which includes a test, hands-on lab practical proficiency standards, students are eligible to register for certification. Only students who register are submitted. This is an industry-driven certification curriculum, and the prerequisite to advanced certifications in subsequent courses. Scores 70 or better receive module certification.

FIELD TRIPS & Student Organizations

- With a combination of classes, students **may** have the opportunity to visit construction sites. These trips enhance student awareness of career opportunities. Each trip is a major grade, as participation and attendance is expected. Subject to availability, each trip will have required forms, eligibility and attendance prerequisites.
- For students that express interest and excellence may join **SkillsUSA**, the national student organization. Opportunities in District, State and National levels of competition in Construction-related contests provide valuable experiences. Annual Local, State & National membership dues are required. See also www.skillsUSA.org



CAMPUS SERVICES

To assist in student achievement and success there are a multitude of student services available on the Ben Barber Campus. Pre-arranged tutorials are available during my conference period, *and* before or after school. Check the school website for other resources. www.mansfieldisd.org/careertech/index.html



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PERSONAL ELECTRONICS

The cell phone has become the construction manager's most valuable tool. This device alone has made a significant impact on the industry. However, cell phones, MP3 players and other personal electronic devices are distractions and hazards in the classroom and lab environment. Students are discouraged from use, will be asked to keep such devices out of the lab area and if the distraction becomes a safety hazard then the discipline plan enacted. **All personal electronics are the sole responsibility of the student- loss, damage or theft is not the liability of the Construction Department.**

DISCIPLINE PLAN:

It is your responsibility to understand and live by the MISD Student Handbook and Code of Conduct. Students and parents/guardians are required to review and sign documentation acknowledging the **Classroom Procedures** and **Lab Procedures addendums** in the **Safety packet**. When a breach of this agreement is made, the following consequences will occur, not necessarily in the order listed:

- Student Conference
- Parent/Student Conference
- Loss of privileges
- Referral

GRADING:

Based on 80% for the semester. Of that, daily work will be weighted 60%. Special assignments, Projects and Tests will be Major Grades and weighted 40%. Each six weeks are averaged together and the semester exam will be 20% of the semester grade per district policy.

SEMESTER EXAMS

Each semester, specific exam schedules are designated for MISD high school and dual credit courses. These schedules must be followed. Neither mid-term, nor final exams are given early. If a student is absent on the day of an exam he/she will take the exam at a date/time designated by the school.

ATTENDANCE AND PARTICIPATION

- Please refer to the district attendance policy and the tardy policy in the student handbook. Ben Barber secures all exterior doors for safety; tardy students must enter through the **Front Entrance**. Students providing illicit entrance receive AC assignment per campus policy.
- An important trait of a good employee is dependability. The construction industry hinges on this principle. Basic Employability is part of the Construction Technology curriculum in accordance with the Texas Essential Knowledge & Skills [TEKS]. It is vital that the student realizes the importance of being dependable on the job, in the lab and in the classroom. To reinforce this, a "Dependability Grade" has been created. This is so valuable in the industry that it is a daily grade, either 0 or 100, averaged each week. See the **Dependability Grade addendum** in your student **Safety packet** for further details.
- Safety glasses, classroom texts, reading and building materials are provided by the district. No student will work in the lab (including the tool room) without: (1) proper attire, (2) signed **Syllabus** on file, (3) **Safety Test** passed, and (4) **Proficiency** demonstrated on each tool. Refer to the Student Handbook, Dress and Grooming code. (see also **Lab Procedures addendum in safety packet**)

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MAKE UP WORK

This hands-on, experiential class is designed and extremely dependent upon participation and attendance. Students are NOT permitted to take tools home, nor work on lab projects at home. Critical, hands-on instructional time is lost, while an individual's proficiency occupies the Instructor. Students can schedule to come into the lab before or after school to catch up. Written make-up work is accepted as follows:

- If student fails to meet the due date and time, then the student has until the next class period (next A day or B day) to turn in assignment to be considered one day late and a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

ABSENCE-RELATED LATE WORK

- The teacher may assign the student makeup work based on the instructional objectives for the subject or course and the needs of the individual student in mastering the essential knowledge and skills or in meeting subject or course requirements.
- A student will be responsible for obtaining and completing the makeup work in a satisfactory manner and within the time specified by the teacher. When absent, the student is afforded the number of days missed plus one additional day to turn in makeup work.
- Long-term assignments are due on scheduled due date even with absences occurring between assignment issuance date and due date.
- This hands-on, experiential class is designed and extremely dependent upon participation and attendance. Students are not permitted to take tools home, nor work on lab projects at home. Obvious hands-on instructional time is lost, while said student occupies the instructor. Students are allowed to schedule time in the lab before or after school to catch up on projects.

RE-TEACHING/RE-TESTING PROCESS

In the event a student fails to exhibit proficiency on the major assessment or tests, an opportunity to retake a failed test/assessment. The student is encouraged to:

1. Attend tutorials for success during conference period, before or after school, by appointment.
2. Arrange with the instructor to receive remediation instruction
3. Arrange with the instructor to re-test outside of class time within 3 class periods or by the end of a six week grading period, whichever comes first.
4. Semester exams and Final exams are not included.

***** Note: The student can only receive a maximum of 70% of the original score possible. *****

ACADEMIC DISHONESTY

Student(s) found to have engaged in academic dishonesty will face academic and discipline action, according to the Student Code of Conduct, on every offense. Grades recorded will be **ZERO**; major grades are eligible for retake.

SOCIAL MEDIA

We strive to regularly post on student success and accomplishments.

Follow and Like us on Facebook [@Const.Tech.BBCTA](#)

Follow us on Twitter [@ConstTechBBCTA](#)



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CONSTRUCTION TECHNOLOGY builds life skills. The culture in the classroom and lab should be professional as found on the jobsite. This class serves as the foundation for a 3-year program that prepares students for building trades, industry certifications and for higher education degree programs. These skills will empower students for a lifetime. Your student's safety is our 1st priority, please take time to read and discuss the **Safety packet** that will be sent home with your student.

**THIS COURSE SYLLABUS IS PROVIDED TO COMMUNICATE EXPECTATIONS
AND COURSE SPECIFIC INFORMATION**
This document is available in electronic format

Please *Sign* and Date; acknowledging your receipt and compliance.

PRINT Student Name

ID#

Date

Parent/Guardian Signature

Date