

Construction Tools and Technology

CNBT 1318

Instructor:

Jarrold Creswell

Office: L100-C

Phone: 979-230-3577

E-mail: jarrod.creswell@brazosport.edu

Course Focus:

The course will focus on developing basic knowledge and the skills needed in the construction industry. The student will need to study all material and demonstrate performance in the following areas: safety, math, hand tools, power tools, rigging, blueprint reading, communication skills, and must present employability skills in the lab.

Course Description:

This course will provide an overview of the construction industry by examining organizational structures and systems, safety regulations and agencies, construction documents, office and field organizations, and the various construction crafts and trades.

Textbook:

NCCER, Core Curriculum: Introductory Craft Skills, Pearson, Fifth Edition, 2015.

Course Objectives:

Upon completion of this course students will be able to:

1. Demonstrate the importance of following all safety rules and company safety policies.
2. Demonstrate safe procedures for lifting heavy objects.
3. Identify the safety requirements for working with various types of ladders and scaffolds.
4. Discuss the classes of fires and the types of extinguishers to use for each type of fire.
5. Demonstrate the proper and safe use of hand tools and power tools.

6. Solve mathematical problems related to the construction industry by using the appropriate formulas.
7. Identify and recognize basic blueprint terms and symbols.
8. Explain the term proximity work.
9. Identify the safety requirements for working in confined spaces.
10. Demonstrate the ability to interpret information and instructions presented in both written and verbal form.
11. Demonstrate the ability to communicate effectively in on-the-job situations using written and verbal skills.
12. Demonstrate critical thinking skills and the ability to solve problems.
13. Demonstrate effective relationship skills with teammates and supervisors, the ability to work on a team, and appropriate leadership skills.
14. Be aware of workplace issues such as sexual harassment, stress, and substance abuse.

Grading Scale:

Course Evaluation:

Module Tests 60%
Participation 10%
Homework 10%
Final Exam 20%

A = 100-90

B = 89-80

C = 79-70

D = 69-60

F = Below 60

Course Schedule:

Monday from 6:30pm-8:30pm in room L-214

There will be homework, a test and a performance lab for each module.

Students with Disabilities:

Brazosport College is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Special Populations Counselor, 979-230-3236, for further information.

Academic Honesty:

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours and yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion violates both the policies of this course and the Student Code of Conduct. Any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication and will at a minimum result in one grade lower in this course.

Please refer to the Brazosport College Student Guide & Calendar for more information.

Attendance and Withdrawal Policy:

Being present at each scheduled class/lab time is essential to your success in this course. Multiple unexcused absences (2 or more) will result in the Instructor dropping you from the class.

During each class period we will be learning skills/knowledge to successfully complete this course. If you miss a class, it is your responsibility to schedule any make-up test, homework, or in class assignment with the instructor.

If you fall behind in this class it is your responsibility to withdraw from the class. Just because you stop attending class, does not mean that you have officially withdrawn from class. To officially withdraw and receive a "W" in this class, you need to complete a withdrawal form before the official deadline which is September 11, 2020.

During class, cell phones and pagers are to be turned off or set on "silent" mode for the ENTIRE class period. Texting is not allowed in class or Lab. If you are expecting a call or text of an emergent nature, please inform me before class to make arrangements in handling the call.

Assignments, Make-up policy and NCCER Credit:

Brazosport College is recognized as an accredited training unit by the National Center for Construction Education and Research (NCCER) and Merit Shop Training, Inc., the education arm of Associated Builders and Contractors, Texas Gulf Coast Chapter.

Since this course incorporates the NCCER curriculum, you may ask to have the skills attained in this class reported to NCCER's Automated National Registry as evidence to potential employers. Before any student's work is reported to the Automated National Registry, the student must sign a Registration and Release form to be which is kept on file at the college. Without this form the college is prohibited from reporting a student's records to third parties.

Students are responsible for completing all reading and homework assignments prior to class. There will be a test and a performance lab on each module. In order to receive NCCER credit for the module, you must pass the written test with a minimum score of 70 and successfully demonstrate the task in the performance lab for the instructor. You have 3 attempts to achieve a score of 70 on the written exam; however you must wait a minimum of 48 hours before the second attempt.

If you do not make a score of at least 70 on the second attempt, you must then wait a minimum of 90 DAYS before the third attempt. I score you make on the FIRST attempt will be the score recorded in the grade books and used in your average. Second and third attempt is a PASS or FAIL only status.

All homework assignments are due the next class period at the beginning of class.

Homework will receive a ten (10) point deduction for being late one (1) class period, twenty (20) points for being late two (2) class periods and will NOT be accepted after the beginning of the second class period. Extenuating circumstances and emergencies do arise; these will be handled on a case by case basis which requires you to notify the instructor PRIOR to the start of class via a message at 979-230-3577.

Student Conduct:

Students are expected to be aware of and follow the Brazosport College Student Code of Conduct. Students have violated the Code if they “fail to comply with any lawful directions, verbal or written, of any official at BC.” Lawful directions include precautions and requirements taken to prevent the spread of COVID-19 at Brazosport College. Students who do not follow safety requirements, including the wearing of a mask, may be removed from class by their instructor and referred to the Dean of Student Services.

Brazosport College is committed to the health and safety of all students, staff, and faculty and adheres to all federal and state guidelines. The College intends to stay open for the duration of the semester, and provide access to classes and support services on campus in the safest way possible. The College will also comply with lawful orders given by applicable authorities, including the Governor of Texas, up to and including campus closure. It is possible that on campus activities may be moved online and/or postpone if such orders are given.

Other Student Information

Information about the Brazosport College Library is available at www.brazosport.edu/sites/CurrentStudents/Libray/default.aspx or by calling -979-230-3310.

Information about study skills and tutoring for math, reading, writing, biology, Chemistry, and other subjects is available in Learning Services. See www.brazopsrt.edu/sites/CurrentStudents/LAC/default.aspx or by calling 979230-3253

Student Services provide assistance in the following:

Counseling and advising	979-230-3040
Financial Aid	979-230-3294
Student Activities	979-230-3355

To reach the Information Technology Department for the following: computer, email, or other technical assistance call the help desk 979-230-3266

Student Contributions:

Each student will spend at least 2 hours per week preparing for class. Attendance is CRITICAL in this class and is part of the student's final grade. PUNCTUALITY and CONSISTENCY of work attendance is also part of the student's grade. The student will have an opportunity to evaluate the instructor.