



ARCHITECTURE, CONSTRUCTION & MANUFACTURING TECHNOLOGIES DIVISION

CONSTRUCTION TECHNOLOGY DEPARTMENT
COURSE SYLLABUS

COURSE NUMBER: **CNBT 1318**

COURSE TITLE: **Construction Tools and Techniques**

CREDITS: 3 (2 lecture, 2 lab)

Instructor: Don Wood; Ph. 281-931-0562; Email: donald.wood1@hccs.edu

COURSE DESCRIPTION

Comprehensive study of the selection and use of hand tools, portable and stationary power tools and related construction equipment. Emphasis on safety in the use of tools and equipment.

PREREQUIATE:

Prerequisites: CNBT 1201, TECM 1301: Must be placed into GUST 0339 in reading, ENGL 0300 or 0347 in writing and MATH 0306 in math.

SUPPLIES & TEXTBOOK:

Modern Carpentry, 12th Edition, by Willis H. Wagner, Howard Smith, Mark W. Huth,
ISBN: 978-1-63126-083-4 [Required]

1 Flash Drive
Paper and Pen/Pencil(s)
Plain Calculator

GRADING SCALE:

90 -100 = A (Excellent)
80 - 89 = B (Good)
70 -79 = C (Fair)
60 – 69 = D (Passing) Less than 60 = F *(Failed)

****F will be awarded to students that stop attending or do not withdraw from the class by the withdrawal deadline***

COURSE GRADING CRITERIA*

ITEM QUANTITY PERCENT OF GRADE REMARKS
TESTS
QUIZZES
MIDTERM
ASSIGNMENTS
PROJECTS
FINAL PROJECT
FINAL EXAM

****Refer to instructor's specific course grading criteria for details***

PLEASE READ IMPORTANT INFORMATION ON PAGE 2

COURSE POLICIES

Attendance

Students are expected to attend classes regularly, and to be on time for every class period. Students can be dropped from a class due to excessive absences. Excessive tardiness may be considered absences. Students are responsible for subjects, assignments, and projects covered during their absences. Consult the ***Student Handbook*** for more details or visit <http://www.hccs.edu/hccs/current-students/student-handbook>

Academic Honesty

Scholastic dishonesty is treated with the utmost seriousness by the instructor and the College. Academic dishonesty includes, but it is not limited to the willful attempt to misrepresent one's work, cheat, plagiarize, or impede other students' scholastic progress. Consult the ***Student Handbook*** for more details.

Students with Disabilities

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the **Disability Support Services Office** at his / her respective college at the beginning of each semester. Faculties are authorized to provide only the accommodations requested by the **Disability Support Services Office**. For Central College, call 713-718-6164.

Cell Phones

All cell phones must be muted, set to vibrate, or turned off during class. Cell phone activity during class is deemed disruptive to the academic process and will not be tolerated. If you need to make or receive an emergency call, please leave the classroom.

Calculators

If the course allows the use of a calculator during class, lab projects, and exams, the student is responsible to bring his/her calculator. Cell phones are not calculators, and are not allowed to be used for that purpose during class, tests, or exams.

Student ID

Students are required to obtain a Student ID. For additional information, consult the ***Student Handbook***.

Parking Rules and Regulations

Students are required to follow HCC's regulations regarding parking and permits. For additional information, visit

<http://www.hccs.edu/hccs/about-hcc/police/parking/parking-rules-and-regulations>

Books, Tools and Supplies

Students are required to purchase and bring to class the required textbooks, tools, notebooks, supplies, and writing instruments as required by the instructor.

Dress Code

Dress code must be appropriate for the class. Students must dress in a way that clothing and accessories do not compromise their safety, and the safety of others. Proper foot wear is required in all laboratories. Absolutely no sandals or other footwear that exposes the feet will be allowed.

Classroom & Laboratory Conduct

Proper behavior is expected in all classes and laboratories. Foul language and horseplay are not allowed. Making or receiving cell phone calls during class are not allowed. Sleeping in class is not allowed.

Course Withdrawal

It is the responsibility of the student to officially withdraw from a course before the official withdrawal deadline. A student who does not withdraw from a course by the deadline will receive an "F" as the final grade. Also note that under Section 51.907 of the Texas Education Code, an institution of higher education may not allow a student to drop more than six courses.

HCC is committed to provide a learning and working environment that is free from discrimination on the basis of sex which includes all forms of sexual misconduct. Title IX of the Education Amendments of 1972 requires that when a complaint is filed, a prompt and thorough investigation is initiated. Complaints may be filed with the HCC Title IX Coordinator available at 713 718-8271 or email at oie@hccs.edu.

COURSE TIMELINE, CONTENTS & ACTIVITIES

WEEK 1: COURSE RULES AND ORIENTATION

- Introduction
- Purpose of the course
- Overview of course syllabus
- Course policies
- Required materials, textbook(s), supplies, and resources (if applicable)
- Disability Support Services
- Registration, schedules, receipts, and student ID
- Importance of updating and maintaining student data (Name, Address, ID #, phone numbers, emails)
- Parking rules and regulations
- Classroom and laboratory safety
- Course withdrawal, **Official Day of Record**, and last day for withdrawal
- Course tests, quizzes, exams, and assignments
- Course grading policies
- Instructor information
- Campus orientation
- Construction Environment

WEEK 2:

- Construction Environment (cont.)

WEEK 3:

- Safety on the Jobsite

WEEK 4:

- General Construction Materials

WEEK 5:

- Hand and Power Tools

WEEK 6:

- Scaffolding, Ladders, & Riggings

WEEK 7:

- Construction Drawings, Specs, & Codes

WEEK 8:

- Construction Layouts

WEEK 9:

- Footings and Foundations

WEEK 10:

- Framing Materials

WEEK 11:

- Framing, Part 1

WEEK 12:

- Framing, Part 2

WEEK 13:

- Roof Framing & Materials

WEEK 14:

- Doors, Windows, and Walls

WEEK 15:

- Course Review & Catch-up

WEEK 16:

- Final Exam