

Introduction to the Construction Industry (CNBT 1201)



Credit: 2 semester credit hours (2 hours lecture)

Prerequisite/Co-requisite: None

Course Description

Identify types of construction and organizational structures; identify and explain purposes for various construction documents; describe construction office and field responsibilities and operations; define and identify safety regulatory agencies; and identify the various construction crafts and trades.

Required Textbook and Materials

1. *Core Curriculum Introductory Craft Skills*, 4th Edition, NCCER
 - a. ISBN: 0-13-608636-5
2. Notebook.

Course Objectives

Upon completion of this course, the student will be able to:

1. Follow Safe working practices and procedures (SCANS: C1-5, C5-3, C7-4)
2. Inspect Safety equipment before use. (SCANS: C1-5, C5-3, C8-4)
3. Use Safety Equipment Properly. (SCANS: C1-5, C5-3, C8-4)
4. Properly identify and use Hand and Power Tools. (SCANS: C1-5, C5-3, C8-4)
5. Properly use Construction Math, Basic Communication Skills. (SCANS: C1-5, C5-3, C6-3 C8-4)

SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

Course Outline

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| A. Introduction | 2. Hazard Recognition |
| 1. Introduction of faculty and students | 3. Elevated Work Conditions |
| 2. Review Syllabus | 4. Electrical Hazards |
| 3. Review Class Policies | 5. Personal Protective Equipment (PPE) |
| 4. Review Lab Assignment | |
| B. Basic Safety | C. Construction Math |
| 1. Accidents and Causes | 1. Whole Numbers |

Approved 05/2012

CNBT 1201
Course Syllabi

- 2. Working with Length Measurements
- 3. Measuring Tape
- 4. Types of Scales
- D. Hand Tools
 - 1. Hammers
 - 2. Chisels & Punches
 - 3. Screwdrivers
 - 4. Pliers
 - 5. Wrenches
 - 6. Levels and Squares
 - 7. Saws
- E. Power Tools
 - 1. Drills
 - 2. Saws
 - 3. Grinders and Sanders
 - 4. Miscellaneous
- F. Introduction to Construction Drawings
 - 1. The Drawing Set
 - 2. Types of Construction Drawings
 - 3. Scales
 - 4. Lines
 - 5. Abbreviations, Symbols and Keynotes
 - 6. Dimensions
- G. Basic Rigging
 - 1. Slings
 - 2. Hitches
 - 3. Rigging Hardware
 - 4. Hoists
 - 5. Rigging Operations and Practices
- H. Communication Skills
 - 1. Communication Process
 - 2. Listening And Speaking
 - 3. Reading and Writing

Course Evaluation

Final grades will be calculated according to the following criteria:

- 1. Homework/Labs 10%
- 2. Quizzes 10%
- 3. Projects 40%
- 4. Final Projects 30%
- 5. Final Exam 10%

Late Penalties will be assessed on all work turned in late, 5 points per day.

Grade Scale

- 90 – 100 A
- 80 – 89 B
- 70 – 79 C
- 60 – 69 D
- 0 – 59 F

Course Requirements

- 1. Take notes.
- 2. Take quizzes and tests.
- 3. Read text book and handouts.
- 4. Do assigned homework.

Attendance Policy

1. Missing more than 20% of classes will result in an automatic “F” for the course.
2. Absences are counted for unexcused, excused and coming to class late.
3. Missing more than 20% of a class period will count as an absence.
4. Being tardy 3 times equals 1 absence.

Course Policies

1. No food, drinks, or use of tobacco products in class.
2. No foul or harsh language will be tolerated
3. Turn off all Cell Phones during lectures
4. Headphones may be worn only upon Instructor approval
5. Do not bring children to class.
6. No Cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an ‘F’ in the course.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

Course Schedule

Week	Topic	Reference
1	Course introduction and policies <ul style="list-style-type: none">• Lecture	Handouts
2	Basic Safety <ul style="list-style-type: none">• Lecture	Module 1
3/4	Construction Math <ul style="list-style-type: none">• Lecture• Homework: As assigned	Module 2
5/6	Hand Tools <ul style="list-style-type: none">• Lecture• Homework: As Assigned	Module 3

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Course Syllabi

Week	Topic	Reference
7/8/9	Power Tools <ul style="list-style-type: none">• Lecture• Homework: As Assigned	Module 4
10/11	Construction Drawings <ul style="list-style-type: none">• Lecture• Homework: As Assigned	Module 5
12/13	Basic Rigging <ul style="list-style-type: none">• Lecture• Homework: As Assigned	Module 6
14/15	Communication Skills <ul style="list-style-type: none">• Lecture• Homework: As Assigned	Module 7
16	Finals <ul style="list-style-type: none">• Test	

Contact Information

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