



CNBT 1413 CONCRETE I SYLLABUS AND OUTLINE RECIPE FOR STUDENT SUCCESS

COURSE DESCRIPTION:

CNBT 1413 Concrete I (4-3-3) A study of the various techniques for concrete utilization in residential and light commercial construction from the theoretical concepts of hydration to the practical experience of verifying site conditions, interpreting data used to establish conditions of level, square, plumb, parallel and perpendicular, tying steel, and placing and finishing an concrete slab. Prerequisites: CNBT 1411 or department approval.

COURSE OBJECTIVES

1. Students will exhibit the value of showing up to work (class) on time, every day, and be productive while at work (class).
2. Students will practice planning and calculating as they gather and interpret data from site investigation procedures.
3. Students will calculate quantities of reinforcing materials, volumes of fill material and cubic yards of concrete as they examine blueprints and details of concrete structures.
4. Students will design concrete forms that result in an end product that meets specifications of size, cost and function.
5. Students will design, proportion materials mix, transport, place and finish a variety of concrete structures.
6. Students will gain experience managing a concrete job, from reviewing plans and interpreting specifications, to calculating labor and material costs and bidding.

STUDENT RESPONSIBILITIES

- 1) Students must bring the following to every class session!
 - a) Tools to write with
Paper to write on
 - b) A tool to pound nails
a tool to remove nails
 - c) A tool to measure architectural scale
 - d) A calculator
- 2) Students must participate in class. This includes doing calculations during class discussions. Research has shown that students who are active in class (paying attention, asking questions, showing interest, and practicing what the instructor

CNBT 1413 CONCRETE I

demonstrates) are more likely to be able to demonstrate the skills that are related to getting and holding a job.

- 3) Students must do homework that is assigned. There is not a lot of outside activity, so I expect everyone to bring to class all assignments.
- 4) There are several exams. The mid-term is the most valuable of them. Come to class every day ready to take a quiz on the previous class content.

STUDENT-PROVIDED TOOLS

The usual: hammer, measuring tape, speed square, calculator, pencil, paper, personal protective equipment.

SAFETY

Every student is responsible for his/her safety. Personal protective equipment will be work when needed. No one has to take chances. Save that behavior for the job.

GRADES

Grades will be calculated according to the following system:

1. Attendance
2. Class participation
3. Exams

Every time you come to class you must sign in!!! I transfer that information to my grade book!!

Each time you come to class and sign in you get 6 points – 6×16 weeks = 96 points

Each time you participate in class activity you get 12 points = 12×16 weeks = 192 points

Total of 18 points x 16 class meetings = 288 points

If you have perfect attendance and class participation, you get 12 extra points.

Grand total – 300 points

There are a total of 200 points for exams:

mas grande por todos – 500 puntas

BREAKDOWN

450 – 500 pts = A

400 – 449 pts = B

350 – 399 pts = C

300 – 349 pts = D

Below 300 = F

Subject areas:

Math - square – level – plumb – parallel – perpendicular

Land Measurement – builder's level – transit level – laser level

Building Layout

Land Measurement

Soils

Blueprints

Building Specs

Estimating

Formwork – walls – footings – flatwork – columns

Reinforcing

Joints

Cements

Admixtures

Anchoring Methods

Building Basics