

CARP 122C : Concrete Forms II

Credits: 8

Class Hours: 16 lecture/lab

Prerequisites: "C" or higher or concurrent enrollment in CARP 122B.

Description: This course covers the theory and practice of concrete form construction, including forms for slab on grade, continuous footings, spot footings, stairs, and how to calculate the amount of concrete needed to complete a project. Other topics include: Laying out a building using the 3-4-5 method and a transit level, shooting elevations with a builders level, and how to convert various units of measurements. Safety practices in form construction are stressed.

Semester Offered: Fall (every even year)

Course Student Learning Outcomes (CSLOs):

1. Calculate the amount of concrete required for a project.
2. Calculate stairs, build concrete forms for a set of stairs, and calculate the amount of concrete required to complete a project.
3. Demonstrate the ability to read an engineer's rod and an architect's rod, and be able to convert readings.
4. Calculate and build ramps to be ADA compliant.
5. Demonstrate the ability to efficiently set up a builders level.
6. Demonstrate the ability to set up a transit level.
7. Calculate slopes of existing ramps and determine if it is ADA accessible.
8. Demonstrate how to layout a building, set batter boards, and shoot elevations for an actual building.