ARCE 1352
Structural Drafting
Syllabus

Course Description: A study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems. Includes detailing of concrete, wood, and steel to meet industry standards including the American Institute of Steel Construction and The American Concrete Institute.

Semester Hours: 3

Lecture/Lab Hours: This course consists of (3) lecture hours per week. Each student is expected to spend 3 hours per week preparing for class. Attendance is crucial for success in this course. Three (3) consecutive unexcused absences may result in the student being dropped from the course.

Suggested Prerequisite: Engineering drawing, technical drafting or architectural drafting, materials and methods of construction.


Student Learning Outcomes: Upon completion of this course the student will be able to:

1. Identify components of structural systems;
2. Use reference materials
3. Produce drawing for concrete, wood, and steel framing systems
4. Draw design details and connections for framing components
5. Draw column and beam details for manufacture and assembly using various fastening methods.

Evaluation Methods:

Drawings & Assignments 50%
Tests 15%
Attendance and Participation 10%
Final Exam 25%
SEMESTER GRADE 100%

A 100-90 Points, B 89-80 Points, C 79-70 Points, D 69-60, F 59 & below

Teaching Methods:
1. Lecture
2. CAD Demonstrations
3. Steel shape models
4. Production drawings from industry

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g)

Academic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College’s rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Board policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. (See the Student Handbook for further explanation of Scholastic Dishonesty.)
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