



Course Syllabus

**Statics and Strength of Materials
ARCE 2344**

Course Description: Internal effects of forces acting upon elastic bodies and the resulting changes in form and dimensions. Includes stress, shear, bending moments, and simple beam design.

Semester Hours Credit: 3

Lecture/Lab Hours: This course consists of (2) lecture hours and (4) lab hours each week

Prerequisite: None

Textbook(s): Applied Strength of Materials, Spiegel. ISBN#0-02-414970-5

Student Learning Outcomes:

1. Calculate load and the effect of forces on structures.
2. Prepare moment and shear diagrams.
3. Analyze compression and tensile forces within structural elements.

Evaluation Methods:

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



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See at: [GL \(Legal\)](#)

Special Needs Services: Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

For more information, contact: in Alice at sdalice@coastalbend.edu; Beeville at sdbeeville@coastalbend.edu; Kingsville at sdkingsville@coastalbend.edu; and Pleasanton at sdpleasanton@coastalbend.edu.

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See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

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Coastal Bend College



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