

Fall 2005

CE 333 Design of Steel Structures

Text: L. Spiegel and G.F. Limbrunner, Applied Structural Steel Design, 4th ed., Prentice Hall, 2002
Manual of Steel Construction – Allowable Stress Design, 9th ed.

References: J.C. McCormac, Structural Steel Design - ASD Method, 4th ed., Harper Collins, 1992.
C.G. Salmon and J.E. Johnson, Steel Structures, 4th ed., Addison Wesley, 1996.

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Office Hours: TR 12:30 – 1:30 or by appointment

Examination Schedule:

Exam No. 1	October 20
Exam No. 2	November 17
Final exam	Tuesday, December 6, 10:15-12:05 P.M.

Design Credit: 4

Engineering Design: 100%

Catalog Course Description: CE 333 Design of Steel Structures (4) - Design of tension members, columns, beams, beam-columns, and connections based on allowable stress design, Prerequisites: CE 321, CE 325

Course objectives – Students must:

1. Learn current specification governing allowable stress design method.
2. Be able to use the ASD specification in the design of steel members and connections.
3. Emphasize the practical aspects of the design currently used in engineering practice.
4. Become familiar with contemporary design issues in practice.

Grading System:

2 exams @ 30% each	50%
Final exam	25%
Homework*	10%

Design project 15%

* Homework is due the meeting following its assignment unless otherwise stated.

<u>Date</u>	<u>Reading-Textbook</u>	<u>Reading-AISC Manual</u>	<u>Problems</u>
9/27/05	Chapt. 1		
9/29	Chapt. 2	B1, B2, B3, D1, J4, J1.6, Table J3.2	2.1.2,2.2.6,2.7
10/4			2.20,2.25,2.30
10/6	3.1-3.6	E1, E2	2.27,2.33a,3.10e, 3.13h,3.15
10/11	3.7-3.8	Comment. C2, J9, F2	3.17(a,d),3.18(c,i)
10/13			Handout probs.
10/18			3.26b,handout prob.
10/20	Examination		3.27,3.28a
10/25	4.1-4.3	Chapt. F	4.3,4.6,4.7(assume full lateral support), handout probs.
10/27	4.4-4.8	pp. 2.146-2.148	4.17,4.18,4.23,4.26, 4.27,4.33
11/1	4.9		4.35,4.37
11/3	6.1-6.2	Chapt. H (pp. 5.54- 5.55), Comment. Chapt. H (pp. 5.151-5.154)	6.4,6.5,6.6
11/8	6.3-6.4		6.12,6.13,6.15, handout probs.
11/10	Problem Session		6.16,6.17, handout probs.
11/15	7.1-7.5		Handout probs.

11/17	Examination	
11/22	7.6	Chapt. J (pp. 5.71-5.78)
11/24	Holiday	
11/29	7.11, Review	