

CE456 – Fall 2018

Steel Structure Design

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Office Hours: Tu: 2-5pm; W: 11am-3pm; Th 2-5pm or by appointment
Class Website: <http://www-classes.usc.edu/engr/ce/456>

COURSE OUTLINE

WEEK	TOPICS
8/21,23	Chapters 1 Introduction
8/28,30	Chapters 2 Steel Design Concepts
9/4,6*	Chapter 3 Design of Tension Members
9/11,13	Chapter 3 Design of Roof Trusses
9/18,20*	Chapter 4 Design of Compressed Members
9/25,27	Chapter 4 Buckling of Compressed Members
10/2,4**	Chapter 5 Bending Strength of Beams
10/9,11	Chapter 5 Biaxial Bending of Beams
10/16,18*	Chapter 6 Design of Beam-Columns
10/23,25	Chapter 6 Braced versus Unbraced Frames
10/30,11/1**	Chapter 7 Simple Connections
11/6,8	Chapter 8 Eccentric Connections
11/13,15*	Chapter 9 Composite Construction
11/20	Chapter 10 Flexural and Shear Strength of Plate Girders
11/27,29	Chapter 10 Design of Plate Girders
12/6**	Final Examination 5pm – 6:20pm

* \implies Quiz on that day (9/4, 9/20, 10/18, 11/15).

** \implies Examination on that day (10/4, 11/1, 12/6).

Grading Policy:

2 equally weighted examinations (20% each)	40%
Final examination (20%)	20%
4 quizzes (drop lowest score)	30%
Homework and Design Projects	10%

Reference Textbook:

- Steel Design, Fifth Edition, by William T. Segui, Cengage Learning, ISBN 13: 978-1-111-57600-4.