



CE 4707
Design of Wood Structures
Fall 2012

- TIME & PLACE:** T R, 7:30 – 8:45 PM, Q108
- CREDITS:** 3 Credits
- INSTRUCTOR:** Metin Oguzmert, PhD, PE
Office: M162A
Phone: (678) 915-3025
EMAIL: moguzmer@spsu.edu
Web: <http://educate.spsu.edu/moguzmer/>
- OFFICE HOURS:** T R, 1:30-3:00 PM W, 10:00AM-12:00PM
- PREREQS:** CE3201 – Structural Analysis
- TEXTBOOK:** *Design of Wood Structures ASD/LRFD*, 6th Edition, Donald E. Breyer and et al., McGraw-Hill, 2007 ISBN: 978 0 07 145539 8 (Required)
- CODES:** *2005 Wood Design Package*, American Forest & Paper Association, American Wood Council, Madison, Wisconsin
- LEARNING OUTCOMES:**
- Apply the basic requirements of the National Design Specification for Wood Construction.
 - Compute load and materials factors of wood structures
 - Design of wood tension members
 - Design connections with bolts and nails
 - Design simple and continuous beams for shear, flexure, and deflection
 - Design of wood diaphragms
 - Design of wood columns
 - Analyze and design lateral force resisting systems consisting of wood shear walls

GRADING:	MIDTERMS (2)	- 40%	
	FINAL	- 30%	(Comprehensive)
	HOMEWORK	- 20%	(~6 Assignments)
	Project	- 10%	

Grading Policy*:

A	B	C	D	F
100 - 90	89.9 - 80	79.9 - 70	69.9 - 60	59.9 - 0

*The instructor reserves the right to adjust these cutoffs downward.

POLICIES:

- Every homework assignment is due in one week, unless instructed otherwise
- Assignments have to be turned in during class session.
- If you are turning in multiple sheets, then use a stapler. Do not use paper clips and do not fold papers.
- Late submissions of assignments are not encouraged; however, if you cannot finish in time a penalty of 50% will be assessed on late assignments submitted within next class meeting time of the due date. After the grace period, ZERO credit towards a final grade.
- Submission will not be accepted if the solutions are distributed by any means.
- You may consult with others on assignments, provided you only submit your attempt at the work.
- Use of cell phones in classroom is not allowed for any purpose. Please put your phone on silent and keep it off your desk during the class.

ACADEMIC HONESTY & DISRUPTIVE BEHAVIOR:

A faculty member reserves the right to remove any student from his or her course if the student's behavior is of a disruptive nature or where there is evidence of academic dishonesty. In instances of disruptive behavior and/or academic dishonesty, the faculty member will discuss the circumstances with the student(s) before taking final action. In the event the student cannot be reached, he/she will be given the grade of "Incomplete" until such time as he/she can be reached. The student shall have the right of appeal of the faculty member's decision first to the faculty member's department head and then to the appropriate college or school dean and, if necessary, to the Vice President for Academic Affairs. Removal of a student from a course under this provision will result in the faculty member's issuing a grade of "F". A grade of "F" issued under these circumstances shall not be superseded by a voluntary withdrawal and will be included in the student's cumulative grade point average calculated for graduation purposes (SPSU Student's Handbook).

SPSU HONOR CODE:

As a member of the Southern Polytechnic State University community of scholars, I understand that my actions are not only a reflection on myself, but also a reflection on the University and the larger body of scholars of which it is a part. Acting unethically, no matter how minor the offense, will be detrimental to my academic progress and self-image. It will also adversely affect all students, faculty, staff, the reputation of this University, and the value of the degrees it awards. Whether on campus or online, I understand that it is not only my personal responsibility, but also a duty to the entire SPSU community that I act in a manner consistent with the highest level of academic integrity. Therefore, I promise that as a member of the Southern Polytechnic State University community, I will not participate in any form of academic misconduct. I also understand that it is my responsibility to hold others to these same standards by addressing actions that deviate from the University-wide commitment to working, living, and learning in an environment conducive to a quality education. Thus, I affirm and adopt this honor code of Southern Polytechnic State University.

OUTLINE:

	Topic	Book
I.	Introduction: Design Philosophy and Loads	Ch.1,2, & 3
II.	Properties of Wood and Lumber Grades	Ch.4
III.	Structural Glued Laminated Timber	Ch.5
IV	Beam Design	Ch.6
V	Axial Forces and Combined Bending and Axial Forces	Ch.7
VI	Wood Structural Panels	Ch.8
VII	Diaphragms	Ch.9
VIII	Shearwalls	Ch.10
IX	Wood Connections	Ch.11, 12,13, 14