

# CIVL-556 – Timber Design - Fall 2008

Instructor: Charles J. Roberts, PE, MS  
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Office Hours: MW 9:00-10:50 AM, F 9:00-9:50 AM

**Course Description:** Theory and design procedures for timber structures to resist gravity and lateral loads and their connections. Basic beam elements, column elements, horizontal diaphragms and shear-walls will be designed by the Allowable Stress Method (ASD).

## Course Objectives:

- Provide students with an understanding of the behavior of timber structures
- Introduce analytical tools for modeling of timber structural elements and systems
- Apply basic concepts of structural design
- Provide a solid foundation for subsequent study of more advanced topics
- Review and reinforce fundamental skills in mathematics, science and engineering, statics, strength of materials, structural mechanics and materials testing lab
- Provide an understanding of timber as a construction material
- Prepare students for successful completion of the professional PE examination

## Course Texts:

- Design of Wood Structures, Breyer/Fridley/Pollock/Cobeen, 6<sup>th</sup> Edition, McGraw-Hill, 2007

**Prerequisites:** CIVL-313

**Meetings:** MWF 12:00-12:50 PM, in Langdon 104

**No Class Days:** Sept. 1 (Labor Day), Nov 11 (Veterans Day), Nov. 24 through 28 (Thanksgiving)

**Final Exam:** Wednesday, December 17, 2008 @ 12:00 1:50 PM, Langdon 104.

Grading Basis: There will be homework, quizzes, design projects, 2 one-hour tests and a two-hour final exam. Several design problems will be assigned during the term, including one computer design project. The final grade will be based on the following proportions:

Homework & Quizzes	15 %
2 midterm tests	40 %
Projects	20 %
Final exam	25 %