ARCH 614 S2013abn

## ARCH 614. Study Guide for Quiz 7

This guide is not providing "answers" for the conceptual questions. It is a list of topical concepts and their application you should be familiar with. It is an *aid* to help prepare for the quiz.

## **Covers material of Lectures 14 & 15**

Lumber vs. engineered timber characteristics
Various strengths (directionality, wood type, etc.)
Creep
Design methodologies and obtaining allowed stresses (duration, multiple member use)
Column stability factor, F <sub>CE</sub> & I/d
Nominal dimensions
Design vs. analysis
Effective length, K & bracing
Built-up and spaced columns
Beam-Columns
Combined bending and compression – interaction
$P-\Delta$ effect
Eccentricity
Connection stresses
Design vs. analysis
Bolt designations
Effective net area
Connection types
Nail load capacity charts
Bolt capacity charts and relation to wood strengths
Single vs. double shear