

## Arch 352 - ARCHITECTURAL STRUCTURES II

Spring 2012

Course Schedule - Revised ... April 18, 2012

Day	Date	Topic	Reading/Study	Assignment
1	1/9	Course Intro ... 'Nominal' Sizes, Specific Weights of Various Woods ...	<a href="#">2005 NDS Supplement</a> ... Ch. 3  <a href="#">Wood Handbook, Ch 4</a> , Table 4-6b ... and <a href="#">Wood Handbook, Chapter 5</a> , Table 5-3b ... Density of Wood ...	
2	1/11	Wood as a GREEN Material	<a href="#">Wood Handbook (WH), Ch. 1</a> and slideshow	<a href="http://www.woodengineering.com/edu/wsu/352/assignment-01.pdf">http://www.woodengineering.com/edu/wsu/352/assignment-01.pdf</a> ... Due 5 pm, Friday 1/13
3	1/13	Boards, Dimension Lumber, Timber, and ... Board Foot Measure	<a href="#">W.H., Ch. 6</a>	<a href="http://www.woodengineering.com/edu/wsu/352/assignment-02.pdf">http://www.woodengineering.com/edu/wsu/352/assignment-02.pdf</a> ... Due Wed., 1/18, 5 pm
	1/16	Martin Luther King Jr. Day		
4	1/18	Moisture Content and Volume Change	<i>WH</i> , Ch. 4 (Pages 4-1 thru 4-10)	<a href="#">Assignment 3</a> ... and ... <a href="#">Assignment 4</a> (Assn 4 is due Mon., 1/23, 5 pm)
5	1/20	Wood Properties – Structural	<i>WH</i> , Ch 5 (Pgs 5-1 thru 5-17)	

6	1/23	Design Values and Adjustment Factors	2005 NDS Supplement	<a href="#">Assignment 5</a>
7	1/25	Calculations		
8	1/27	Design Aids, Span Calculators	<a href="#">AWC/AF&amp;PA Span Calculator</a> ...woohooo!	<a href="#">Assignment 6</a> ... due Monday, 5 pm
9	1/30	Review		
10	2/1	EXAM 1		
11	2/3	Structural Wood Products	<a href="#">9-structural-wood-products.pdf</a> ... and first 5 pages of ... <a href="http://www.woodbywy.com/literature/tj-9000.pdf">http://www.woodbywy.com/literature/tj-9000.pdf</a>	
12	2/6	Engineered Floor Systems	<a href="http://www.woodbywy.com/literature/TJ-4000.pdf">http://www.woodbywy.com/literature/TJ-4000.pdf</a> ... yes, the whole thing! LOL	Assignment 7 ... is ... <a href="#">here</a> (Due 2/13, 4 pm)
13	2/8	Glued Laminated Timber	<a href="#">WH, Ch 11</a> and <a href="#">Ch. 12</a> and 2005 NDS Supplement ... and ... <a href="http://www.apawood.org/pdfs/download_pdf.cfm?PDFFilename=managed/E30_Glulam.pdf">http://www.apawood.org/pdfs/download_pdf.cfm?PDFFilename=managed/E30_Glulam.pdf</a>	
14	2/10	Beams!	Text, Section 8.6 Roof Beam Tables (Snow Load): <a href="http://aitc-glulam.org/pdf/Capacity/DF_26.PDF">http://aitc-glulam.org/pdf/Capacity/DF_26.PDF</a> Roof Beams (Construction Load): <a href="http://aitc-glulam.org/pdf/Capacity/DF_25.PDF">http://aitc-glulam.org/pdf/Capacity/DF_25.PDF</a> Floor Beams: <a href="http://aitc-glulam.org/pdf/Capacity/DF_27.PDF">http://aitc-glulam.org/pdf/Capacity/DF_27.PDF</a>	Assignment 8 ... is ... <a href="#">here</a> ... (Due 2/17, 4 pm)

15	2/13	Curved Beams	(Lecture ...)	
16	2/15	Notches, Holes, etc.	Glulam ... here: <a href="http://aitc-glulam.org/shopcart/Pdf/aitc_tn_19_%20may_2002.pdf">http://aitc-glulam.org/shopcart/Pdf/aitc_tn_19_%20may_2002.pdf</a> ... and ... TJ-9000 p. 36 for SCL ... and TJ-4000 p. 11 for wood I-joists.	
17	2/17	Columns	Text, Sections 9.4 and 9.5 Glulam Columns (DF): <a href="http://aitc-glulam.org/pdf/Column/DF-2-1_15.PDF">http://aitc-glulam.org/pdf/Column/DF-2-1_15.PDF</a> <a href="http://aitc-glulam.org/pdf/Column/DF-2-1_00.PDF">http://aitc-glulam.org/pdf/Column/DF-2-1_00.PDF</a> <a href="http://aitc-glulam.org/pdf/Column/DF-2-1_25.PDF">http://aitc-glulam.org/pdf/Column/DF-2-1_25.PDF</a> Sawn Lumber: <a href="http://courses.cit.cornell.edu/arch264/calculators/example7.1/index.html">http://courses.cit.cornell.edu/arch264/calculators/example7.1/index.html</a>	Assignment 9 ... is now up ... <a href="#">HERE!</a>
	2/20	President's Day - CLASS HOLIDAY		
18	2/22	Studs and Walls		
19	2/24	Roof Framing – Trusses ... and RAFTERS	(check this out ... <a href="#">here</a> ).	
20	2/27	Decking and Sheathing	APA Load Span Tables for APA Structural Use Panels: <a href="http://www.apawood.org/pdfs/download_pdf.cfm?PDFfilename=managed/Q225.pdf">http://www.apawood.org/pdfs/download_pdf.cfm?PDFfilename=managed/Q225.pdf</a>  AITC ... Standard for Tongue-and-Groove Heavy Timber Roof Decking: <a href="http://aitc-glulam.org/shopcart/Pdf/aitc_112-93.pdf">http://aitc-glulam.org/shopcart/Pdf/aitc_112-93.pdf</a>  (And bring the 'SUPP'.)	
21	2/29	REVIEW		
22	3/2	EXAM 2		

	3/5	Professor Out of Town (OOT) - no class	(Construction Drawings and Construction Documents)	
23	3/7	AITC NEWS DESK	... new design procedure for Moment Splices in Glulam, procedures for evaluating BIG holes in beams, seismic design of arches, etc., ...	
24	3/9	Construction Docs		
		March 12-16 – WSU - SPRING VACATION		
25	3/19	Connections - Introduction	Wood Handbook, Ch. 8: <a href="http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr190/chapter_08.pdf">http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr190/chapter_08.pdf</a>	
26	3/21	Nailed Connections	... get ESR 1359 from ... <a href="http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-1539.pdf">http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-1539.pdf</a> (Print out <i>AT LEAST</i> pages 22 – 26)	
27	3/23	Bolted Connections	<a href="http://aitc-glulam.org/shopcart/Pdf/aitc_104_2003.pdf">http://aitc-glulam.org/shopcart/Pdf/aitc_104_2003.pdf</a> (Yes, all of it, while supplies last!)	Assignment 10 ... <a href="#">here</a> (Due 4/4 4 pm)
28	3/26	Lag Screws ... and Manuf'd Screws	... and ... the Simpson Strong-Tie Catalog part on their SDS screws (see link below).	
29	3/28	Manufactured Connectors ... and ... Adhesives	<a href="http://www.strongtie.com/literature/c-2011.html?source=linklist">http://www.strongtie.com/literature/c-2011.html?source=linklist</a> (or hard copy) ...	
	3/30	No Class	(AIAS CONFERENCE)	
30	4/2	Timber and <i>Fire!</i> ... AND ... Checking and Splitting	Download (AITC): ... <a href="#">here</a>	

31	4/4	Review		
32	4/6	EXAM 3		
33	4/9	Structural Steel and Beams, ASD	Page-ish 268-271 (repeat) and Appendix info on Structural Steel	
34	4/11	Steel Beams, Cont.	Ditto	
35	4/13	Steel Columns, ASD	Text, Sections, 9.1-3 ... and brochure on HSS Section Properties from 351 ... <a href="#">here</a>	Assignment 11 ... <a href="#">here</a>
36	4/16	Steel Beams, LRFD	Sec. 8.7	Assignment 12 ... <a href="#">here</a>
37	4/18	Bolted Connections	Text, Section 10.1	
38	4/20	Welded Connections	Text, Section 10.2	
39	4/23	Decks <sup>1</sup>	( ...Simpson Strong-Tie literature on decks)	
40	4/25	Plywood Plate Trusses <sup>2</sup>	NDS Table 11Q ... and ... (search) <a href="#">Plywood Design Specification</a>	
41	4/27	Review		
42	5/1	FINAL EXAM, TUESDAY, 3:10-5:10 PM		

<sup>1</sup> This goes after (with) Construction Docs.

<sup>2</sup> May not cover in Spring 2012.