

UNIVERSITY of NOTRE DAME  
School of Architecture

**BUILDING TECHNOLOGY I / ARCH 20411**

Semester Calendar  
Fall 2013

WEEK 1			Reading:	Assignment:
TU	August 27	Introduction to Course	<b>Vitruvius, Book 1, Ch. 2</b>	--
TH	August 29	<b>Lecture:</b> <i>Why Do We Build?</i>	Ref: Alberti, Book 1	--
S	August 31	<b>ND v. Temple @ home</b>		
WEEK 2			Reading:	Assignment:
TU	September 3	<b>Lecture:</b> <i>How Do We Build?</i> Fundamental Principles of Architecture	Ref: Alberti, Book 2 & 3	--
TH	September 5	<b>Lecture:</b> <i>What Do We Build With – And Why?</i> Fundamental Principles of Construction & Tectonics I	Ref: Ching, Ch. 6	<b>Detail #1: Fundamental Tectonics</b> (Due: 9/10)
S	September 7	ND @ Michigan		
WEEK 3			Reading:	Assignment:
TU	September 10	<b>Lecture:</b> Fundamental Principles of Construction & Tectonics II: Roof Systems <b>DUE: Detail #1</b>	<b>Ching, Ch.1</b>	<b>Detail #2: Roof to Wall</b> (Due: 9/19)
TH	September 12	<b>Lecture:</b> Pre-Design, Site, and Environmental Analysis I <b>Select Presentations:</b> Detail #1	--	--
S	September 14	ND @ Purdue		
WEEK 4			Reading:	Assignment:
TU	September 17	<b>Lecture:</b> Pre-Design, Site, and Environmental Analysis II	--	--
TH	September 19	<b>Exercise:</b> Environmental Analysis (in class) <b>DUE: Detail #2</b> <b>Select Presentations:</b> Detail # 2	Ref: Allen, Ch. 1 & Ching, Ch. 5	--
S	September 21	ND @ Michigan State		

WEEK 5		Reading:	Assignment:
TU	September 24	--	--
	<b>Lecture:</b> Typical Wall Systems and Openings		
TH	September 26	Ref: AGS, Reserves, Architecture Library	<b>Parts to Whole</b> (due 10/15)
S	September 28		
	<b>ND v. Oklahoma @ home</b>		
WEEK 6		Reading:	Assignment:
TU	October 1	Ref: Allen Chapter 8	--
	<b>ND Energy Week Lecture:</b> Passive House – A Passive Solar Primer (Guest: Kenneth Francis) Co-sponsored by Center for Sustainable Energy – ND		
TH	October 3	--	<b>Masonry Day Design Project</b> (due 10/10) <b>Field Trip Forms</b> (due 10/10)
	<b>Lecture:</b> Fundamental Principles of Masonry Construction Guests: 6 <sup>th</sup> Annual Masonry Day Introduction Daniel Flores (BAC #4), Dave Brown (Intl. Masonry Institute)		
S	October 5		
	ND v. ASU @ Texas		
WEEK 7		Reading:	Assignment:
TU	October 8	--	--
	<b>In Studio:</b> Masonry Day Project		
TH	October 10	--	--
	<b>Masonry Day 2013:</b> Depart D6 @ 8:00 am Masonry Day Design Project DUE @ 8:00 am		
WEEK 8		Reading:	Assignment:
TU	October 15	--	--
	<b>DUE: Parts to Whole</b> <b>Presentations:</b> Parts to Whole		
TH	October 17	Ref: Allen, Chapter 2, Ching Ch. 3 & 4	--
	<b>Tour:</b> Buildings of Notre Dame Visual Inspection of Performative Details		
S	October 19		
	<b>ND v USC @ home</b>		
WEEK 9		Reading:	Assignment:
TU	October 22	--	--
	<b>FALL BREAK</b>		
TH	October 24	--	--
	<b>FALL BREAK</b>		
S	October 26		
	ND @ Air Force		
WEEK 10		Reading:	Assignment:
TU	October 29	Ref: Allen, Ch. 4	<b>Detail #3: Foundation &amp; Wall</b> (due: 11/19)
	<b>Lecture:</b> Typical Spanning and Foundation Systems		

WEEK 10 Cont'd.			
TH	October 31	<b>Lecture:</b> Heavy Timber Framing	Ref: Allen, Ch. 5 --
S	November 2	<b>ND v. Navy @ home</b>	
WEEK 11		Reading:	Assignment:
TU	November 5	<b>Lecture:</b> Light Wood Framing	-- --
TH	November 7	<b>Demonstration:</b> Light Wood Framing & Window Install' Co-sponsors: ND Building Arts Concentration & Marvin Windows	-- --
S	November 9	ND @ Pittsburg	
WEEK 12		Reading:	Assignment:
TU	November 12	<b>Exercise:</b> Timber & Teamwork Michigan Barn Preservation Network	-- --
TH	November 14	<b>Lecture:</b> Technical Integration Basics <b>Introduce:</b> Final Project <b>DUE:</b> Detail # 4	Ref: Allen, Ch. 9 <b>Final Project:</b> Building & Wall Sections for Studio Project (due: 12/12)
WEEK 13		Reading:	Assignment:
TU	November 19	Lecture: Steel Framing	-- --
TH	November 21	<b>In Studio:</b> Technical Desk Crits Review "Draft 1" Basic Assumptions: Roof, Wall, Spanning, Foundation Systems	Ref. Ching, Ch. 7 --
S	November 23	<b>ND v. BYU @ home</b>	
WEEK 14		Reading:	Assignment:
TU	November 26	<b>Lecture:</b> Exterior Details	--
TH	November 28	<b>THANKSGIVING</b>	--
S	November 30	ND v. Stanford	
WEEK 15			
TU	December 3	<b>In Studio:</b> Technical Desk Crits Review "Draft 2" - Detail Assumptions	-- Completed CIF
TH	December 5	<b>Lecture:</b> Accessibility & Stairs (Guest: Bill Ponko, AIA)	-- --

WEEK 16

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TU	December 10	<b>Lecture:</b> Review of Traditional Construction Methods and Materials and their Modern Application/ Sustainability	--	--
TH	December 12	<b>Review:</b> Final Project Presentations/ Final Class	--	--