

Schedule revised 1/19/2016 (subject to change)

ARCH 4-507 FORM AND PERFORMANCE - Cheng - W16

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Optional Tuesday Help Sessions

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Week	Date	Room	Topic	Reading	Assignment Due	Presentations	
1.1	W	6-Jan	405LA	Biomimicry Intro, Resources	Biomimicry 3.8 Design lens, VincentL Biomimetic Patterns in Arch Design, Ball: Self-made Tapestry, Ch.1		
1.2	F	8-Jan	283M	GH Basics, 2D patterning			
2.1	W	13-Jan	405LA	Skins & Building Facades	Perez-Garcia Natural Structures, Aksamija: Sustainable Facades, Mazzolini: Architecture Follows Nature	1A Skin: Sketches, 2D parametric pattern.	
2.2	F	15-Jan	283M	GH Paneling Tools			
3.1	W	20-Jan	405LA	Systems Thinking, Biomimetic Water designs	Daniel Kim's Intro to System's Thinking, Radiolab Emergence podcast: http://www.radiolab.org/story/91500-emergence/ Autodesk's Systems' Thinking video: http://sustainabilityworkshop.autodesk.com/products/whole-systems-and-lifecycle-thinking	1B Skin: 3D adjustable biomimetic module	B. Jean Dominguez
3.2	F	22-Jan	283M	GH Ladybug: Climate & Solar Visualization			Connor Carlson
4.1	W	27-Jan	405LA	Growth: Evo-Devo	Carroll's Endless Forms Most Beautiful Ch1- 2, Frazier's Evolutionary Architecture (online)	1C Skin: 3D Solar Adaptive Façade	Addison Estrada
4.2	F	29-Jan	283M	GH Ladybug & Honeybee: Lighting			Nicole Hendrix
5.1	W	3-Feb	405LA	Growth: Algorithmic architecture	Burry's New Mathematics of Architecture: Glossary	2A Dynamic System study; >Final Project Definition	Isabel Rivera
5.2	F	5-Feb	283M	GH Graph mapper, data structures			Max Friday
6.1	W	10-Feb	405LA	Bones, Carapaces & dynamic structures	Turner's Bones, Vogel's Cat's Paws and Catapults (Ch.3-5)	2B Dynamic System design	Zandra Christensen- Valavis
6.2	F	12-Feb	283M	Kangaroo Structural simulation			Langdon Goldberg
7.1	W	17-Feb	405LA	Case Study Analyses	Neal Panchuk's Uwaterloo Thesis	3A Case Study Analysis for final project	Case Study Analyses
7.2	F	19-Feb	283M	Case Study Analyses & Project Development			Case Study Analyses
8.1	W	24-Feb	405LA	Digital Fabrication	Iwamoto's Digital Fabrication	3B Conceptual sketches, Plan	
8.2	F	26-Feb	283M	Project Development			

9.1	W	2-Mar	405LA	Work-in Project updates		3C Design development
9.2	F	4-Mar	283M	Project Development		
10				Each team schedules 2 appointments in lieu of class during weeks 10 and 11		3D Final Project Draft Presentation
11	Th	17-Mar	TBA	10:15am-12:30pm		3E Final Project Review Final Presentations