

Wasley. Sp. 2017 Arch. 723: Theories of Ecological Design

COURSE OUTLINE/ CALENDAR v.3 FINAL RECORD

	DATE	TOPIC	Reading	Additional Texts	Exercises	Video- view before class
1	1/25	Introduction: The Environmental Crisis as Context	Rockstrum and Klum. "Ten Key Messages" UN Sustainable Development Goals		What is the env. Crisis? What are the goals of ecological design?	Big World, Small Planet (in class) The 11 th Hour (Golda Meir)
2	2/1	Initial Frameworks	Boehnert. Ecological Literacy in design education Guy and Farmer- reinterpreting sustainable architecture Shu-Yang.. Principles and Practices of Ecological Design	IPCC. Climate Change 2014 Synthesis Report https://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_SPM.pdf Nature. Nov. 2015. The launch of Spaceship Earth	Diagram the three reading's arguments as a framework for understanding Ecological Design. How do they relate to one another? What overlaps? What are their major differences?	A Fierce Green Fire (JW-SARUP)
3	2/8	Systems Theory	Ishmael (full book) Meadows-Thinking in Systems Ch.7 Callicot- Gaia Hypothesis Van der Ryn- Culture, Architecture and Nature. Intro.	Dana Meadows lecture- Sustainable Systems. 1999. https://www.youtube.com/watch?v=HMmChilZZHg Watch this on your own	Ishmael representation- Diagram structure of book or identify 'systems' described.	Earth from Space (JW-SARUP)
4	2/15	Genius Loci	Norburg-Schulz- the Phenomenon of Place Day. Spirit and Place Hawkes- The 'other' environmental tradition			'Alvar Aalto: Technology and Nature,' produced by Oy Yleisradio (Golda Meir)
5	2/22	Critical Regionalism Bioregionalism	Frampton- Prospects for a Critical Regionalism Lefavre and Tzonis- Critical Regionalism Snyder- Coming into the Watershed Thayer- LifePlace		Bioregion mapping	
6	3/1	Resiliency Biomimicry	Mallgrave- "sustainability and beyond" Benyus- Ch. 1 Knippers-	http://www.resilientdesign.org/ https://www.aia.org/topics/56-resilience		Home page TED talk https://biomimicry.org/janine-benyus/ Rokstrom interview https://www.youtube.com/watch?v=Tpmiehh98PE
7	3/15	Biophilia	Kellert- Biophilic Design Ch. 1 Fisk- the Greening of the Brain		GUEST LECTURE- Adrian Cerezo (?)	Biophilic design: the architecture of life (Golda Meir)
8	3/22	SPRING BREAK				
9	3/29	PROJECT REVIEW				Dreiseitl and Busby at Wingspread (JW-SARUP)
10	4/5	Expanded horizons- Green Infrastructure	Hillary Brown. Next Generation Infrastructure ch. 1 and 8 Rouse et al. Landscape Planning, Design and Green Infrastructure			Green Plans (VHS) (JW-SARUP)
11	4/12 INTERIM	Systems of Codifying Sustainability	Cote Top 10 call for entries 2017 Practical Sustainability Strategies- Ch.4 The Natural Step			The Natural Step (VHS) (JW-SARUP) (in class)
12	4/19	New Narratives- Regenerative Design	Cradle to Cradle (full book)			Chasing Ice video (in class)

13	4/26	Building Research and Information Special Issue: Regenerative Design	Cole- Regenerative Design Current Theory and Practice Pearl- Early Phase Mining Mang and Reed. The Nature of Positive			
14	5/3	Last Class	Watson. Architecture, Technology and Environment		Theory of Ecological Design	
15	5/10	REVIEW WEEK				
	5/17	FINAL EXAM DAY Project Reports due electronically				