

ARC 223 | ARCE 223
Spring 2019

Building Technology III, EAS I
January 17, 2019

Faculty
Aletheia Ida, Ph.D.

Course Time + Locations
*Lectures: TU 9:30am-10:45am
All lecture sessions will be held at designated times in Education Building Room 353 unless noted otherwise

GTA's
Samira (Mahsa) Mivehchian
Nicholas (Nick) Giambanco
Zechariah (Zach) Fung

*ARC 223 + ARCE 223 Labs : TU 11:00am-12:15pm [occasional ARCE Lab Session]
TH 9:30am-12:15pm [x3 45-minute Lab Session Groups]
All lab sessions will be held at designated times in Architecture Room 205 (Computer Lab) unless noted otherwise

DATE		LOCATION	SEGMENT	LECTURE	LAB	READING to be completed prior to Lecture class	ASSIGNMENT DEADLINES
WEEK	DAY						
Week One	8-Jan	-		-	-	-	-
	11-Jan	No Lab		-	No Lab	-	-
Week Two	15-Jan	EDUC 353 (Lecture)	INTRO	Lecture 01: Introduction - Environmental Fundamentals	Lab Intro: Tools, Procedures, Protocols	-	-
	17-Jan	Room 205 (Comp.Lab)		INTRO Lab Sessions			-
Week Three	22-Jan	EDUC 353 (Lecture)	CLIMATE	Lecture 02: Physics Fundamentals	Lab 01: Climate Analysis	Reading 01	-
	24-Jan	Room 205 (Comp.Lab)		CLIMATE ANALYSIS LAB			-
Week Four	29-Jan	EDUC 353 (Lecture)	CLIMATE	Lecture 03: Climate Fundamentals	Lab 02: Fundamentals Quiz Online	Reading 02	-
	31-Jan	Room 205 (Comp.Lab)		ONLINE In-Class QUIZ			QUIZ: Fundamentals
Week Five	5-Feb	EDUC 353 (Lecture)	PRECEDENT PROJECT ANALYSIS	Lecture 04: Precedent Projects Overview	Lab 03: Solar Analysis	Reading 03	-
	7-Feb	Room 205 (Comp.Lab)		SOLAR LAB			EXERCISE 01 DUE: Climate Studies
Week Six	12-Feb	EDUC 353 (Lecture)	PRECEDENT PROJECT ANALYSIS	Lecture 05: Solar Fundamentals	Lab 04: Rhino Modeling for Environmental Performance Analyses	Reading 04	-
	14-Feb	Room 205 (Comp.Lab)		RHINO Modeling Lab			Reading Notebook check
Week Seven	19-Feb	EDUC 353 (Lecture)	PRECEDENT PROJECT ANALYSIS	Lecture 06: Daylight Fundamentals	Lab 05: Daylight Analysis	Reading 05	-
	21-Feb	Room 205 (Comp.Lab)		DAYLIGHT LAB			-
Week Eight	26-Feb	EDUC 353 (Lecture)	PRECEDENT PROJECT ANALYSIS	Lecture 07: Airflow Fundamentals	Lab 06: Airflow Analysis	Reading 06	-
	28-Feb	Room 205 (Comp.Lab)		AIRFLOW LAB			-
Week Nine	5-Mar	No Class: Spring Break		-			-

DATE		LOCATION	SEGMENT	LECTURE	LAB	READING to be completed prior to Lecture class	ASSIGNMENT DEADLINES
WEEK	DAY						
Week	7-Mar	No Class: Spring Break		-			-
Week Ten	12-Mar	EDUC 353 (Lecture)	ENERGY FLOWS and APPLICATIONS	Lecture 08: Precedent Analysis Discussions	Lab 07: Wind Tunnel Demonstrations	Reading 07	-
	14-Mar	AME Wind Tunnel		AME Wind Tunnel Demo			EXERCISE 02 DUE: Precedent Studies
Week Eleven	19-Mar	ENR2 Building		ENR2 Site Visit	Lab 08: Building Energy Performance I	Reading 08	-
	21-Mar	Room 205 (Comp.Lab)		ENERGY LAB			Reading Notebook check
Week Twelve	26-Mar	EDUC 353 (Lecture)		Lecture 09: Passive Design + Integrated Systems	Lab 09: Building Energy Performance II	Reading 09	-
	28-Mar	Room 205 (Comp.Lab)		ENERGY LAB			-
Week Thirteen	2-Apr	EDUC 353 (Lecture)		Lecture 10: Acoustics Fundamentals	Lab 10: Dynamic Spatiotemporal Design	Reading 10	-
	4-Apr	Room 205 (Comp.Lab)		SPATIOTEMPORAL LAB			-
Week Fourteen	9-Apr	Eller Dance Theater		Eller Dance Theater Visit: Acoustics Demonstration	Lab 11: Dynamic Spatiotemporal Design Demos	Reading 11	-
	11-Apr	Room 205 (Comp.Lab)		SPATIOTEMPORAL LAB			EXERCISE 03 DUE: Spatiotemporal Energy Flows
Week Fifteen	16-Apr	EDUC 353 (Lecture)		Lecture 11: Synthesis + Final Project Discussion	Lab 12: Synthesis Design Lab I	Reading 12	-
	18-Apr	Room 205 (Comp.Lab)		SYNTHESIS LAB			Reading Notebook check
Week Sixteen	23-Apr	EDUC 353 (Lecture)		Review Sessions: Final Project Assistance	Lab 13: Synthesis Design Lab II		-
	25-Apr	Room 205 (Comp.Lab)		SYNTHESIS LAB			-
Week Seventeen	30-Apr	No Class: Studio Reviews					-
	2-May	No Class: Studio Reviews					-
Week Eighteen	7-May	No Class: Finals Week					Replacement Grade Labs and Extra Credit Assignments DUE on D2L (5:00pm)
	9-May	No Class: Finals Week			FINAL PROJECT DUE on D2L (5:00pm)		
			SYNTHESIS				