

ARCH7012 Visualization Fall 2013 Schedule

office hour:
TR 2:00PM - 3:30PM

Ming Tang, DAAP, UC. Fall 2013

Week 1: intro, Concept Drawing (Analog + Digital) 08.26

class	Topic	What to do
Tu	3:30pm-4:50pm Topic • Syllabus (Fall 2013) Activity • Who is who • Discuss the learning component Lecture Architectural presentation. Composition example Digital + Analog Architectural Illustrations: Andy Hickes Tool: • Pencil • Stylus + Wacom • Adobe Illustrator • Adobe photoshop	Watch • Lynda.com Download 3D Studio Max, Revit from AutoDesk Community Assignment: P1 • Check ASAI • check NYSR • Bert Monroy, Digital Painter and Illustrator • Watch lynda.com Ron Crabb painting project • http://fengzhudesign.com/tutorials.htm

Thur	Ming Sketchbook • Basic AutoCAD • Task to test AutoCAD skills. • Prerequisite Knowledge of Computer Skill (SAID 294) Meet in 4480 A Lecture: 3D modeling techniques	Watch Videos: • Basic AutoCAD for beginners • Rhino UI, 2D, 3D, prepare model for 3d print & laser cut • Rhino modeling (surface + mesh) • Older tutorials ○ Basic Rhino 1 ○ Rino 2 • From Rhino to Photoshop, illustrator

Week 2: 2D drafting + Basic 3D Modeling (Labor day on Monday)

class	Topic	What to do
Tu	P1 Review • Lecture: 3D modeling with Rhino and GH	Due for first week: P1 Assign: P2 Watch video • Basic GH • Basic Rhino and GH: Boolean Operation in GH
TH	lecture: digital fabrication Visit RPC at 4PM. working time	Watch Video • hexagon panels with random split

Week 3: Architectural Representation 09.10

class	Topic	What to do
Tu	working in class for RPC submission	
TH	working time	

Week 4: Digital Rendering 1 09/17

class	Topic	What to do
Tu	due: submission to RPC Intro demo: • Rhino rendering Camera + Views Lecture PDF	Watch Video • Camera view in Rhino • Camera view in Revit
TH	Lighting	Transfer models from other program to 3dsmax ◦ Transfer from Rhino to 3ds Max ◦ From Revit to 3ds max Assignment: P3 • 3ds max exposure control • 3ds max modeling tricks • 3ds max lighting Rhino : deform flat surface to curved surface

Week 5: 09/24. Digital Rendering 2

class	Topic	What to do
Tu	Material	Due: P2 watch • Slate Material Editor in 3ds max • 3ds max material
TH	critique of P2 due: physical model	Watch • transfer models across various program

Week 6: 10.01. Rendering

class	Topic	What to do
Tu	Collect P2 models in class. Advanced Rendering in 3ds max Advanced material • Ambient Occlusion • Ink - line-wireframe • Z-depth working time	Watch • Ambient Occlusion + Z-depth + Wireframe
TH	working time	

Week 7: . 10.07.

class	Topic	What to do
Tu	No class. Reading day	
TH	Critique of P3	Due: P3

Week 8: . 10.15. Animation / Video Editing

class	Topic	What to do
Tu	Lecture: Animation 3d animation. • camera path animation. another • lighting animation • construction animation • Kinetic another another2 • construction animation, another, another 2 another 3 another 4 • Simulation • section animation Grasshopper animation working time.	Assignment: P4: Animation. dropbox link Watch: • Single/Multi-slider animation + rendering in Grasshopper • Animate panels in Grasshopper • 3ds max animation
TH	working time	

		Watch: video editing
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Week 9. working time . 10.22

class	Topic	What to do
Tu	Ming travel to ACADIA conference No class. working time	
TH	working time	

Week 10.. 10.29: Animation

class	Topic	What to do
Tu	working time	
TH	review of P4	Due: P4

Week 11. 11.05. data visualization: Urban Scale

class	Topic	What to do
Tu	<u>Due day of P1 sketch.</u> <u>Select the best five drawings and post them online.</u>	Assign. P5 read: • Urban Model Visualization.

	Lecture: Geospatial data visualization. P51 Demo	Savannah. • Independent study urban model
TH	P5.1 demo continue. working time	

Week 12. 11.12. Urban Scale

class	Topic	What to do
Tu	studio review for some students. Excused from class. working time	
TH	working time	

Week 13. 11.19. Architectural Scale (Thanksgiving weekend)

class	Topic	What to do
Tu	P5.2. Architectural Scale: demo working time	Watch video spatial analysis
TH	working time	

Week 14. 11.26. Architectural scale

class	Topic	What to do
Tu	class evaluation. working time	
TH	No class (Holiday)	

Week 15. 12.03. Final Presentation

class	Topic	What to do
Tu	working time	
TH 12.05	room 5430 in DAAP 1:30 pm to 5:00 pm session one 1:30pm- 3pm session two: 3:10-5pm	Due: P5

Week 16. 12.10 (Exam Week)

class	Topic	What to do