### Arch 490 - 02 Artificial Intelligence in Arch\_ Professor: Alphonso Peluso \_ Spring 2024 Syllabus

## **Course Information**

Class Schedule:	See link above	
Tutorials and Class Assignments Location:	http://alphonsopeluso.com (or other)	
Required Text and Materials:	All tutorials for in class learning will be provided on the portal	
Prerequisite(s):	DC2 or permission from the department	
Professor info:	Alphonso Peluso E-Mail: peluso@iit.edu	
Number and title:	Arch 490 - 02 -Artificial Intelligence in Arch	

**Course description:** The AI Artificial Intelligence in Architecture course is designed to equip students with a comprehensive understanding of the applications and implications of artificial intelligence in the field of architecture. This course explores how AI technologies can enhance and revolutionize architectural design, planning, and construction processes. Throughout the course, students will delve into the fundamental concepts and theories underlying artificial intelligence, machine learning, and deep learning. They will examine various AI algorithms, techniques, and tools that can be employed in architectural practice. Students will also gain hands-on experience with state-of-the-art AI software and platforms used in the architecture industry.

**Course goals:** Students will work on weekly themes to generate images through an iterative process. For the midterm and final students will submit deliverables for a competition brief or a brief that they develop themselves.

Software:

MidJourney Rhino Stable Diffusion Control Net Adobe Premiere Runway ML Grading:

Each class students will submit completed class assignment(s) showing their progress and understanding of basic concepts. Final grade is based on the four percentages below:

10% for attendance (attendance is mandatory, signing in for someone and/or 3 unexcused absences will result in a failing grade)

20% for Homework assignments30% for Midterm40% for the Final

**Please note:** attendance, completion and submission of all course work on time is the minimum requirement and does not mean that you will receive an A grade. All grades are subject to the grade judging criteria below:

#### Grades are determined by judging 4 different categories:

**Legibility** - Make sure that your assignments are clear and easy to read. Use spell check (all software apps have it). Your shared folder should be neat and organized with assignment #'s labeled **Firstname\_Lastname\_A0#**.

**Composition** - In addition to being legible you should apply all the concepts of composition that you have previously learned. Some suggestions including but not limited to are: images should tell a story. Images should create a sense of drama. Assignments should include title and drawing names, all text should be placed with good layout & scale.

**Style** - This is an expansion of Composition. Create your own style. Some style elements including but not limited to are:image style, lighting, camera angles, material representation, font color, font type, background color, title bar and rendering style

**Innovation** - Expand upon the skill sets taught in the course and apply them to the assignments. Research additional learning resources found on the Internet and in Libraries. Create your own way to apply the software tools and concepts discussed in the course.

#### Students with Disabilities Statement:

Americans with Disabilities Act (ADA) Policy Statement Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor), telephone: 312.567.5744 or disabilities@iit.edu

# **Class Schedule**

Week One: January 09	Intro – Subscribe to MidJourney How to set up a discord server for MJ	Week Nine: March 05	MJ Zoom Out Features
	Baunaus exercise	Spring Break: March 12	March 11 - 16
Week Two:	MJ Prompt Weights _ Figure Ground Studies		
January 16		Week Ten: March 19	MJ Pan Features
Week Three:	MJ Image Prompts _ Light Studies		
January 23		Week Eleven: March 26	Stable Diffusion 1
Week Four:	MJ Aspect Ratios _ Film Types		
January 30		Week Twelve: April 02	Stable Diffusion 2
Week Five:	Reverse story telling		
		Week Thirteen: April 09	Runway ML
Week Six:	Work in Class	Maak Equitaan	Mark in Class
rebluary 13		April 16	work in class
Week Seven: February 20	Work in Class	Week Fifteen: April 23	Work in Class
Week Eight: February 27	Midterm Presentation	Finals Week: April 29	FINAL PRESENTATION

\*note: course syllabus & schedule are subject to change