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

Course description: The course explores the integration of cutting-edge realtime rendering technologies into the field of architecture. With the advent of powerful hardware and software, architects now have the ability to create immersive and interactive visualizations of their designs in real time. Throughout this course, students will delve into the fundamental principles, techniques, and tools used in real-time rendering engines to create high-quality and photorealistic architectural visualizations. The course emphasizes practical skills and hands-on experience, allowing students to develop proficiency in utilizing real-time rendering engines to enhance architectural design processes

Course goals: Students will bui

Students will build a 3-D model and produce renderings, animation, and VR of a current studio project

Principals to keep in mind as you learn and explore digital visualization: Tell a Story Create a sense of drama Develop a style Present an image not found in reality Maintain flexibility and balance

Software:

Rhino / Lumion Adobe Photoshop Adobe Premiere 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 assignments 30% for Midterm 40% 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: renderings should tell a story, cameras and lighting 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: rendering 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

Class One: May 14	Cameras _ Rhino / Lumion Workflow Lumion Sunlight	Class Seven: June 04	Midterm Presentation
Class Two: May 16	Lumion LiveSync _ Real Skies (HDRI images) Material Basics _ Alpha Channel	Class Eight: June 06	Lumion Animation Basics 1 _ Camera Path Presets Orbit Path _ Dolly Shot _Pan/Tilt _ Follow Object
Class Three: May 21	Lumion Basics _ Landscape Editing Adding Entourage Assets Photoshop Workflow Secrets	Class Nine: June 11	Lumion Animation Basics 2 _ Record Key Frames Advanced Move _ Mass Move _ Wind _ Birds Adobe Premiere Basics
Class Four: May 23	Lumion PBR Materials and Texture Maps Effects Stack Photoshop Workflow Secrets	Class Ten: June 13	Daylight, Water, and Weather Animation
Class Five: May 28	Lumion Lighting _ Glass Material Photoshop Glass Reflections Open Street Maps	Class Eleven: June 18	Work in Class
Class Six: May 30	Work in Class	Class Twelve: June 20	FINAL PRESENTATION

*note: course syllabus & schedule are subject to change