Course Number	CS 585	Course Title	Advanced Topics in Computer Graphics
Semester Hours	3	Course	Tong Shu
		Coordinator	
		FA20	
Catalog	Study of computer graphics for realistic image synthesis. Object modeling and		
Description	associated date structures. Advanced rendering techniques such as raytracing and		
	radiosity. Efficiency considerations. Image composition and compression. Current		
	advances and research problems in realistic computer graphics.		
Textbooks			

References

Course Learning Outcomes

Assessment of the Contribution to Student Outcomes Outcome \rightarrow 1 2 3 4 5 6 7 Assessed \rightarrow X X X X

Prerequisites by Topic

CS 485

Major Topics Covered in the Course

- 1. Overview of 3D graphics and methods in realistic image synthesis
- 2. Introduction to PHIGS
- 3. Reflection and shading models
- 4. Object representation and modeling
- 5. Rendering
- 6. Anti-aliasing
- 7. Ray tracing and methods to enhance realism

Latest Revision: Spring 2021