1 2 3 2 2	27-Aug 30-Aug 1-Sep	W	Topics Introduction ; Course overview	Computer Animation: Algorithms Readings	Essential Mathematics Readings	Mathematics for 3D Game Programming Readings	AI for Games Readings
1 2 2 3 2 -	25-Aug 27-Aug 30-Aug 1-Sep	W	Introduction ; Course overview	· ·			Al for Games Readings
1 2 2 3 2 -	25-Aug 27-Aug 30-Aug 1-Sep	W	Introduction ; Course overview	Algorithms Redungs	ricuanigs		
1 2 3 2 2	27-Aug 30-Aug 1-Sep	F					Air for Games Readings
2 2	30-Aug 1-Sep						
2 3	30-Aug 1-Sep		History of animation and games Linear algebra review	Ch. 1			
3	1-Sep	IVI	History of animation and games, Linear algebra review		Ch 1,2	Ch. 2 + 3	
3 —	·		Linear algebra review	Appendix B	Ch. 1+2	Cn. 2 + 3	
3 —	·	14/	Computer graphics pipeline				
3	3-Sep	VV	Unity Intro				
3	3-Sept	_	3D object modeling + Meshes				
3			2D modeling transformations and matrices	Ch. 2	Ch. 3	Ch. 1 + 4	
3	6-Sep		Labor Day (No Class)	1			
	8-Sep	W	3D modeling transformations and matrices	Ch. 2	Ch. 3	Ch. 1 + 4	
			Scene modeling and scene graphs				
	10-Sep		Procedural model creation - terrain and mazes				
	13-Sep		Procedural model creation - terrain and mazes				
	15-Sep		Rendering and animation loops				
1	17-Sep	F	Rendering and animation loops				
			Numerical integration	Appendix B			
	20-Sep		Physically based animation	Ch. 7		Ch. 13	
5 2	22-Sep	W	Physically based animation	Ch. 7			
			Physics - forces				
2	24-Sep	F	Collision detection	Ch. 7	Ch. 11 + 12		
2	27-Sep	М	Collision detection and response	Ch. 7	Ch. 11 + 12	Ch. 12	
	29-Sep		Physically based animation review				
	1-Oct		Physically based animation review				
	4-Oct		Behavior based animation	Ch. 11			Ch. 3
7	6-Oct		Behavior based animation	Ch. 11			Ch. 3
	8-Oct		Pathfinding				Ch. 4
	11-Oct		Pathfinding				Ch. 4
	13-Oct		Behavior based animation review				
	15-Oct		Autumn Break (No Class)				
	18-Oct		Behavior based animation review				
<b>—</b>	20-Oct		Interpolation	Ch. 3			
_	22-Oct		Interpolation and curve fitting	Ch. 3	Ch. 9	Ch. 11	
	25-Oct		Interpolation and curve fitting	Ch. 3	Ch. 9	Ch. 11	
			Interpolation and curve riting  Interpolation and rotation representations	Ch. 3	Ch. 9	CII. II	
	27-Oct						
	29-Oct		Deformation using interpolation	Ch. 4	Ch. 10		
	1-Nov		Deformation using interpolation	Ch. F			
	3-Nov		Kinematic linkages and Hierarchical modeling	Ch. 5			
	5-Nov		Kinematic linkages and Hierarchical modeling	Ch. 5			
	8-Nov		Interpolation review				
	10-Nov		Interpolation Review	Ch. 8		Ch. 15	
	12-Nov		Fluids	Ch. 8		Ch. 15	
	15-Nov		Cloth and human figure animation	Ch. 6			
	17-Nov		Motion capture	Ch. 6			
	19-Nov		Plant modeling	Ch. 12			
	22-Nov		Real time rendering topics		Ch. 5-8	Ch. 7 + 8	
	24-Nov		Thanksgiving break (No class)				
	26-Nov		Thanksgiving break (No class)				
2	29-Nov	М	Photo realistic rendering topics			Ch. 6	
15	1-Dec	W	Game development case studies and game design				
	3-Dec	F	Perception, design, human factors, and visualization				
16	6-Dec	М	Specialized hardware for graphics and games				
	8-Dec		Specialized hardware for graphics and games				
			,	Finals week			