



Lecture	Topic	Primary Source(s)
0	Course Overview	Chapter 1, Eberly 2 ^e
1	CG Basics: Transformation Matrices; Lab 0	Sections (§) 2.1, 2.2
2	Viewing 1: Overview, Projections	§ 2.2.3 – 2.2.4, 2.8
3	Viewing 2: Viewing Transformation	§ 2.3 esp. 2.3.4; FVFH slides
4	Lab 1a: Flash & OpenGL Basics	Ch. 2, 16 ¹ , Angel Primer
5	Viewing 3: Graphics Pipeline	§ 2.3 esp. 2.3.7; 2.6, 2.7
6	Scan Conversion 1: Lines, Midpoint Algorithm	§ 2.5.1, 3.1; FVFH slides
7	Viewing 4: Clipping & Culling; Lab 1b	§ 2.3.5, 2.4, 3.1.3
8	Scan Conversion 2: Polygons, Clipping Intro	§ 2.4, 2.5 esp. 2.5.4, 3.1.6
9	Surface Detail 1: Illumination & Shading	§ 2.5, 2.6.1 – 2.6.2, 4.3.2, 20.2
10	Lab 2a: Direct3D / DirectX Intro	§ 2.7, Direct3D handout § 2.6.3, 20.3 – 20.4, France
12	Surface Detail 2: Nappings; OpenGL Textures	§ 20.5 – 20.13
13	Surface Detail 4: Pixel/Vertex Shad.: Lab 2b	§ 20.5 - 20.15 § 3.1
14	Surface Detail 5: Direct3D Shading; OGLSL	§ 3.2 – 3.4, Direct3D handout
15	Demos 1: CGA, Fun; Scene Graphs: State	§ 4.1 – 4.3, CGA handout
16	Lab 3a: Shading & Transparency	§ 2.6, 20.1, Primer
17	Animation 1: Basics, Keyframes; HW/Exam	\$ 5.1 - 5.2
	Exam 1 review; Hour Exam 1 (evening)	Chapters 1 – 4, 20
18	Scene Graphs: Rendering; Lab 3b: Shader	§ 4.4 - 4.7
19		3
20	Demos 3: Surfaces: B-reps/Volume Graphics	§ 10.4, 12.7, Mesh handout
20 Lightly-s machine	Demos 2: SFX; Skinning, Morphing	§ 5.3 – 5.5, CGA handout § 10.4, 12.7, Mesh handout heavily-shaded entries, that of a

































































































