



Outcomes		HW 0129	HW 0212	HW 0226	HW2 0226	HW 0319	HW 0326	HW 0404	HW2 pipe	HW 0418	So Far
1	Represent, model, and create visual information digitally.										
1a	...in terms of pixels and geometric primitives.		+		+						+
1b	...in terms of polygon meshes: vertices, edges, and faces.					/					/
1c	...as a composition of multiple discrete objects (scenes).					/		O			O
2	Manipulate and display visual information in 2D and 3D.										
2a	Apply transforms to 2D and 3D objects.						/	O			O
2b	Project 3D objects onto a 2D viewport.						/	-			/
2c	Perform color and light computations.			/							
2d	Perform clipping and hidden surface removal (HSR).										
3	Use and develop computer graphics APIs in both 2D and 3D.										
3a	Animate scenes in 2D and 3D.							O			O
3b	Implement 2D graphics primitives such as line segments, circles, and polygon fills.			/							
3c	Perform bit-level color manipulation.				+						+
3d	Develop a library of geometric primitives, operations, and matrix transformations.					/	/	O			O
3e	Render a 3D scene using programmable shaders.							O			O
4	Follow academic and technical best practices throughout the course.										
4a	Write syntactically correct, functional code.		+	/	+	/		O			O
4b	Demonstrate proper separation of concerns.		/	+		+	+	O		+	O
4c	Write code that is easily understood by programmers other than yourself.	/	+	/	/	/		O		+	O
4d	Use available resources and documentation to find required information.	+	+	/	+	/		O		+	O
4e	Use version control effectively.		+	+		/		O			O
4f	Meet all designated deadlines.	+	+			/		-		/	/

Totals

+	2
	2
/	3
-	0
O	10