



Outcomes		HW 0121	HW 0130	HW 0218	HW 0311	So Far
<b>1</b>	<b>Represent, model, and create visual information digitally.</b>					
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).					
<b>2</b>	<b>Manipulate and display visual information in 2D and 3D.</b>					
2a	Apply transforms to 2D and 3D objects.					
2b	Project 3D objects onto a 2D viewport.					
2c	Perform color and light computations.					
2d	Perform clipping and hidden surface removal (HSR).					
<b>3</b>	<b>Use and develop computer graphics APIs in both 2D and 3D.</b>					
3a	Animate scenes in 2D and 3D.					
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.					
3e	Render a 3D scene using programmable shaders.					
<b>4</b>	<b>Follow academic and technical best practices throughout the course.</b>					
4a	Write syntactically correct, functional code.		/	+		
4b	Demonstrate proper separation of concerns.			+	+	+
4c	Write code that is easily understood by programmers other than yourself.			+		
4d	Use available resources and documentation to find required information.	+	+	+		+
4e	Use version control effectively.	+	+	+	+	+
4f	Meet all designated deadlines.	+	+			+

## Totals

+	5
	7
/	0
-	0
0	0