## My submission fulfils the following conditions to pass:

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Software compiles	Yes		
Populated Git repo consistent with DLE submission exists	Git link: https://github.com/Mdot5596/Zombie-Scene-		
	<u>OpenGL</u>		
OpenGL in C++ with vertex and fragment shaders loaded	List your signature(s):		
with a quad displayed and signature feature visible.	My signature is a 3D rectangle with morgan written on it		
	this is hidden inside of the rock  ORGANI  ORGANI  THE RESERVE THE PROPERTY OF		
Write up and video explanation submitted	Filenames: https://github.com/Mdot5596/Zombie-Scene-		
	OpenGL/blob/main/README.md		
	YouTube: <a href="https://youtu.be/z9JmAVT52C4">https://youtu.be/z9JmAVT52C4</a>		
Defended work in viva.	Yes		

	My CW2 project has the following features					
Feature	Description	Category	Marks Claimed	Marks Awarded (for ML use)		
MVP Implemented	MVP transforms implemented in vertexshader.vert line 12 and 18. And in Main.CPP 33-37, 278-283, 456-457.  MVP done in CPP line 456, which should be done in shaders for better efficiency.	40-70 Marks	5	2.5		
Textures	Single and Mixed textures working in multiple models such as house, rock, and zombie Example for Zombie:  There you can see the diffuse, normal, and spec textures, and they apply properly to the zombie model:	40-70 Marks	5	5		

3D polygons with scene animations	Multiple 3D polygon objects are displayed on the screen — that being the zombie, the house, the rock, the signature, and the clouds  Scene animation being the clouds moving  See YouTube video for evidence of the clouds being animated  //Cloud movement variables float moveSpeed = 0.5f; float maxRange = 3.0f; float animationTime = 0.0f;  //Render cloud (Ainmiated) float xoffset = sin(AnimationTime) * 0.2f;  Verified cloud has movement timings	40-70 Marks	5	5
Keyboard/mouse movement	W,A,S,D can be used to fluidly move around the scene and the mouse can be used to look around the screen smoothly.    37	40-70 Marks	5	5
Load models with textures	Multiple Models have been successfully loaded with correct textures, 2 different Model types (.obj and .fbx)    ObjHouse			5

	Verified obj and fbx models loadable			
Procedural content generation	Successfully generated 3 different biomes using fastnoiselite and Perlin noise to with unique frequencies and amplitude so they can be differentiated.  See lines 58 – 142, 197 – 259, 285- 307  I see only one biome? The max mark is for biomes overlapped over a single terrain and clearly visible (as in Lab 8), not 3 separate terrains. Besides, the other 2 are barely noticeable.			2.5
Audio	Added background audio noise (rain) and interactive audio playback (spacebar makes camera scream).  See YouTube Video for evidence audio works    149	Advanced		5
Research	IsoundEngine* engine = createTrrklangDevice();   cout < "Spacebar pressed: Playing audio!" << endl;   engineplay20("audio/mixkit-falling-male-scream-391.wav");   spacePressed = true;   spacePressed = true;   spacePressed = false; // Reset when spacebar is released   spacePressed = false; // Reset when spacebar is released   That's a pretty hilarious sound effect, but it's interactive.   This has been discussed using 2 examples in my Readme on			0
Related Implementation	I did say check with me about what constitutes proper 'research' before applying it. This doesn't include tutorials.			
Total Feature Mar			30	25
Advanced			20	5
Passing Marks			40	40
Aesthetics			10	5
Total		1		75
ML Feedback:		ı	1	

Nice attempt to include all the important points in the rubric on to the scene. Some were a bit far-fetched but I'll give them to you anyway for the attempt (like the interactive audio). It would be good if the scene can make a bit more sense than a static zombie screaming in the middle of a reck, but I think it's a decent attempt at aesthetics.

Name: Morgan Hodge

\*By submitting this form I acknowledge all the information claimed to be true.