

Essay Rubric

City Layout Criteria		0 (Points)	1 (Points)	2 (Points)	3 (Points)	Score
I. Selection of Living Space:						
Select and define a living space of their choice using “green” materials, processes and standards to address a societal need.						
1	Does the essay define the living space and its location as it pertains to the citizens in need (e.g. homeless)?	a.	Living space is NOT defined	Living space is defined/named		
		b.	Location is NOT identified	Location is briefly identified	Location is well identified	
		c.	Does NOT address the needs of the citizens	Briefly relates to the needs of the citizens	Adequately relates to the needs of the citizens	Relates well to the needs of the citizens
2	Does the essay explain how the living space can adapt to various sizes and styles, and what is the expected lifespan of the living space?	a.	NO explanation of variation in size, style or lifespan	One of the three characteristics is briefly addressed	Two characteristics are briefly addressed	Three characteristics are briefly addressed
		b.	NO in depth explanation of any characteristic	In depth explanation of at least one characteristic	In depth explanation of all three characteristics	
3	Does the essay discuss the target demographic of the living space/housing?		Living space target demographic is NOT identified	Target demographic is briefly discussed	Target demographic is adequately discussed	Target demographic is well discussed
II. Research:						
Research of existing green building sustainable processes, materials, and technologies.						
4	Is there evidence of research into existing green building technologies and criteria used today?	a.	NO evidence of research	Research of one green technology	Research of at least two green technologies	
		b.	Research is NOT in depth	Research of one green technology topic is in-depth	Research of at least two green technology topics is in-depth	
		c.	NO examples are presented	Examples are presented		

Essay Rubric (continued)

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III. Green Materials and Resources:						
Develop and investigate a new technology or improvement to a technology to incorporate into the residential space to insure sustainable/green design. The technology or innovation should aim to satisfy the “Green Ideals”.						
5	Does the essay describe innovation in “Green” materials and resources and how they function?	a. A “Green” material/resource innovation is NOT identified	A “Green” material/resource innovation is identified			
		b. NO description of how the material/resource innovation will function	Material/resource innovation function briefly described	Material/resource innovation function adequately described	Material/resource innovation function well described	
		c. NO examples are presented	Examples are presented			
6	Does the essay describe how the chosen materials will enable the living space to adapt to the community?	NO description of how the living space adapts to the community	Brief description of how the living space adapts to the community	Adequate description of how the living space adapts to the community	How the living space adapts to the community is well described	
7	Does the essay discuss the impact of the chosen materials on construction waste?	NO discussion of impact on waste	Brief discussion of impact on waste	Adequate discussion of impact on waste	Impact on waste is well discussed	
8	Does the essay describe the impact of the chosen materials on the living space aesthetics (interior and exterior)?	NO description of the living space aesthetics	Brief description of the living space aesthetics	Adequate description of the living space aesthetics	The living space aesthetics are well described	
9	Does the essay describe what makes the chosen material an economic, efficient and sustainable choice?	a. Economy and efficiency are NOT discussed.	Economy and efficiency are briefly discussed	Economy and efficiency are adequately discussed	Economy and efficiency are well discussed	
		b. Sustainability is NOT discussed	Sustainability is briefly discussed	Sustainability is adequately discussed	Sustainability is well discussed	
10	Does the essay describe the tradeoffs made between economic, efficient and sustainable in the selection of the chosen building materials?	Tradeoffs between economics, efficiency, and sustainability are NOT discussed	Tradeoffs between economics, efficiency, and sustainability are briefly discussed	Tradeoffs between economics, efficiency, and sustainability are adequately discussed	Tradeoffs between economics, efficiency, and sustainability are well discussed	
11	Does the essay discuss the environmental footprint or impact of the living space?	NO discussion of environmental footprint	Brief discussion of environmental footprint	Adequate discussion of environmental footprint	Environmental footprint is well discussed	

Essay Rubric (continued)

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IV. Function and Value of the Living Space:						
Provide in-depth discussion of the function of the living space design or component(s) and its influence on the occupants and community.						
12	Does the essay discuss the durability and maintenance of the living space?	NO discussion of durability and maintenance is provided	Brief discussion of durability and maintenance is provided	Adequate discussion of durability and maintenance is provided	Durability and maintenance are well discussed	
13	Does the essay provides a description of the improvements to the quality of life of the living space occupants (including elderly and disabled)?	NO description of improvement in the quality of life for the occupants.	Brief description of improvement in the quality of life for the occupants.	Adequate description of improvement in the quality of life for the occupants.	Improvement in the quality of life for the occupants is well described	
14	Does the essay discussion include benefits of the living space design and its impact on the community and environment?	a. NO discussion of benefits to the <u>community</u> provided by the living space	Brief discussion of the benefits to the <u>community</u>	Adequate discussion of the benefits to the <u>community</u>	The benefits to the <u>community</u> are well discussed	
		b. NO discussion of benefits to the <u>environment</u> provided by the living space	Brief discussion of the benefits to the <u>environment</u>	Adequate discussion of the benefits to the <u>environment</u>	The benefits to the <u>environment</u> are well discussed	
V. Role of the Engineer:						
Identify an engineering discipline and its role in developing the living space design or components of the living space.						
15	Does the essay discuss the role of one engineering discipline in the development of the living space?	a. An engineering discipline is NOT identified	An engineering discipline is identified			
		b. The role of the engineer in developing the living space or its components NOT discussed	The role of the engineer in developing the living space or its components is briefly discussed	The role of the engineer in developing the living space or its components is adequately discussed	The role of the engineer in developing the living space or its components is well discussed	

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VI. Written Communications:						
Assessment of the overall written presentation.						
16	Well Written	Poorly written and organized	Satisfactorily written and organized	Exceptionally written and organized		
17	Grammar	Many grammatical errors	Some grammatical errors	No grammatical errors		
18	Spelling	Many spelling errors	Some spelling errors	No spelling errors		
19	Length	Fewer than 700 words or more than 1000 words	Between 700 and 1000 words			
20	List of References	a. Less than three appropriate references	At least three appropriate references			
		b. References are NOT correctly listed	References are correctly listed			
Total Essay Points (0–70 points)						