

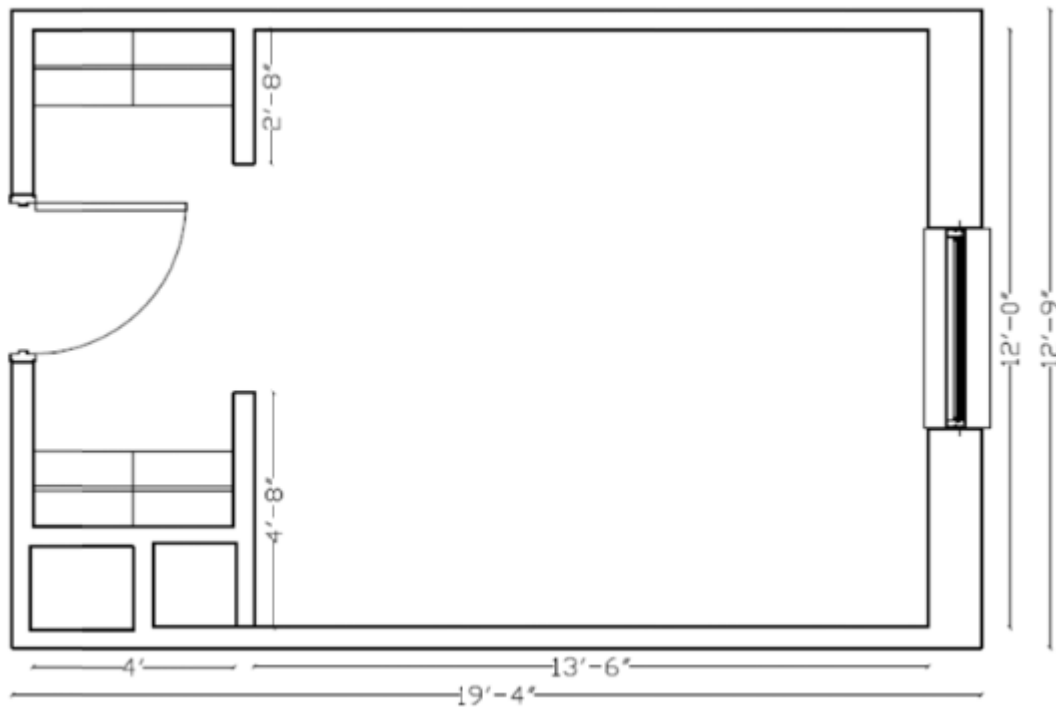


STEM WORKSHOP: MODULE 01

Designing small spaces: Dorm room of the future

Description:

Oklahoma State University is in the process of constructing new dorm room buildings for college students. These new buildings are being constructed along Hall of fame Avenue in Stillwater, OK. Based on the floor plan of a two-person dorm room below propose an innovative solution of the future dorm room for new generation college students.



You have the freedom to decide what kind of furniture to include. Please download furniture as instructed through 3D warehouse.



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<p>Step 1: Create the floor</p>	<ul style="list-style-type: none"> • Select shapes tool; pull down arrow and choose rectangle • Place cursor on origin • Click and move cursor slightly on the green axis • Type 19'4", 12'9" • Press return on keyboard • Make sure your room is in landscape
	<ul style="list-style-type: none"> • Select orbit tool to position your drawing • The drawing should be in landscape
<p>Step 2: Create exterior wall</p>	<ul style="list-style-type: none"> • Select offset tool • Click on outer line • Move slightly towards inside of room • Type 9" • Press return on the keyboard
<p>Step 3: Create closet wall</p>	<p>Closet wall: Side A</p> <ul style="list-style-type: none"> • Select the lines tool • Click on interior wall at left bottom corner and move cursor slightly along red axis • Type 4' • Hover your cursor to find endpoint • Draw a line across room to interior wall • Press return on the keyboard
	<p>Closet wall: Side B</p> <ul style="list-style-type: none"> • Select the lines tool • Position cursor at 4' endpoint • Move cursor slightly on red axis • Type 9" • Click to complete line • Draw a line across room to interior wall • Press return on the keyboard
	<p>Remove closet edges</p> <ul style="list-style-type: none"> • Select erase tool • Erase small segments between closet and room



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<p>Step 4: Create a closet doorway</p>	<ul style="list-style-type: none"> • Select the select tool • Highlight the closet floor; right click and choose erase • Highlight the room floor; right click and choose erase
<p>Step 5: Create bottom closet line</p>	<ul style="list-style-type: none"> • Select the lines tool • Click wall between closet and room: Move cursor along green axis • Type 4'8" • Press return on keyboard • Find line endpoint (green circle) • Draw small segment across wall and click to complete
<p>Step 6: Create top closet line</p>	<ul style="list-style-type: none"> • Select the lines tool • Click wall between closet and room: Move cursor along green axis • Type 2'8" • Press return on keyboard • Draw small segment and click to complete wall and create door opening
	<ul style="list-style-type: none"> • Select the select tool • Highlight floor space; right click and choose erase • Highlight door opening; right click and choose erase • Highlight door lines; right click and choose erase
<p>Step 7: Create outer doorway</p>	<ul style="list-style-type: none"> • Select the lines tool • Draw line from bottom closet doorway to exterior closet wall • Click to complete line • Select the lines tool • Draw line from top closet doorway to exterior closet wall • Click to complete line



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Step 8: Remove floor space and extra wall lines	<ul style="list-style-type: none">• Select the select tool• Delete all floor space; right click and choose erase• Delete extra lines to make two door openings; right click and choose erase
Step 9: Raise walls	<ul style="list-style-type: none">• Select push/pull tool• Click the wall; raise slightly and type 9'• Press return on keyboard
Step 10: Create floor	<ul style="list-style-type: none">• Select shapes tool; pull down arrow and choose rectangle• Begin in one corner and drag across to the opposite corner to create floor
Step 11: Furnish your room!	<ul style="list-style-type: none">• Access 3D warehouse• Search for furnishings• Insert into SketchUp

<https://youtube.com/playlist?list=PLGrr5RpxliXpkHY8ihu10AdtqJIWKpkzy>