

(50 pts) Approx. 4 days

The second part of our unit makes us think about design needs as outlined by building codes, handicapped accessibility, and client needs.

1. First, watch the presentations on *Planning & Sketching Floor Plans* as well as *Introduction to Building Codes*. These will give some good information about how to go about planning for your first home design. Take a full page of notes on these ideas.
2. Then, take a page of notes on all the information in the *Universal Design* presentation as well as the four *Accessibility* videos. Keep in mind that your Habitat for Humanity house will need to be handicapped accessible.
3. Now, find another CEA student, or a senior in our engineering class, or Mr. Benshoof and identify them as the client for your Habitat for Humanity home design. Interview them briefly and ask them the following questions, recording their answers in your engineering notebook:

How many people are in your family?

What are the approximate ages of members of your family?

Does anyone in your family have physical disabilities? How many pets do you have? What kind?







Is there a style of house you'd prefer?

Would you prefer a deck or patio?

What are your leisure activities?

Which is more important to you: extra storage or extra living space?

4. Next, create 2 different designs for your Habitat for Humanity house using bubble diagrams. Bring them both to the client and get their feedback. You might need to make a few adjustments before they give you approval on one design.
5. Finally, get into Revit and design the house! Your Revit design should include walls, floors, ceilings, and roof as well as doors and windows. All other elements will be added in Unit 4.
6. Before moving on, take the Unit 3 Quiz linked on the website **by October 11**.

Part 2: Tasks	5 points	4-3 points	2-1-0 points
 Planning & Codes Notes	+ You took a full page of notes on the <i>Planning & Sketching</i> and <i>Intro to Building Codes</i> presentations	- Your notes are less than a page or missing important information	- Your notes are severely lacking
 Universal Accessibility Notes	+ You took a full page of notes on the <i>Universal Design</i> and four <i>Accessibility</i> presentations	- Your notes are less than a page or missing important information	- Your notes are severely lacking
	10-9 points	8-5 points	4-0 points
 Home Owner Interview	+ You interviewed a CEA classmate or other classmate about their needs for a home + You used the interview questions provided above	- You did not get answers to all the interview questions	- You did not record your answers - You did not interview a client
 2 Bubble Diagrams	+ You created 2 different bubble diagrams for potential home layouts + You had one diagram approved by your client	- You only made 1 bubble diagram - You did not have your design approved by the client	- Your bubble diagrams are totally missing
 Revit Design	+ You created the home in Revit to include walls, windows, doors, roof, ceiling, and floor	- Your Revit design is incomplete - Your Revit design does not meet the design parameters	- Your Revit design is missing
 Unit 3 Quiz	+ You took the Unit 3 Quiz by the due date + Your grade is based on the number you get correct	N/A	- You did not take the Unit 3 Quiz

