The Dream House Project

Congratulations! You have just been hired as part of a new architecture team. However, competition is fierce, so to keep your job, you need to show off your design and geometry skills.

Your task . . .

You will work in a group of 3-4 to produce a project proposal for a dream house. The “final set” of drawings must include a **title page, site plan, 2-D floor plans, elevation sketches, and a proposed cost estimate**. This will be submitted to the “city” (aka Laura) for permit approval before it is cleared for production. If you are feeling especially ambitious, you will also create a **3-D rendering** using google sketchup to be showcased to potential clients. These renderings will be displayed at our 10th grade exhibition in a **“Parade of Homes”** where attendees (aka. potential clients) will vote for which house they would most like to live in. The votes will have some weight on your final project grade, so be sure to use wise marketing strategies and keep in mind what the public wants.

The jobs:

1. **Project Manager**—Responsibilities include: Keeping track of deadlines and due dates. Setting calendar and homework assignments for the group. Making notes of who is in charge of what aspects/rooms in the house. Completing the “Task Management Organizer” and submitting it to Laura daily. Quality control. Supporting team members in any needs. Compiling final set for production.

Group member: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Drafter(s)**—Responsibilities include: Preparing technical, scaled manual drafts of site plan, floor plans, and elevations. Researching outside class to become an expert in Google Sketchup. Converting manual drafts to Sketch-up drawings for the final set. Assisting group members with computer problems.

Group member(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Planner/Estimator**—Responsibilities include: Choosing materials for flooring, walls, etc. (with input from the whole team) and calculating prices for each option by finding specific areas of each room. Developing a comprehensive cost estimate for each room. Tracking detailed proof of prices and imputing into excel spreadsheet. Preparing overall bid/proposal.

Group member: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Some basic constraints:

* Every house must be *at least* two bedrooms and two baths with a kitchen, family/great room, and garage. Extra rooms are extra work and will be scored accordingly.
* No room may simply be a rectangle. Be creative and include unique architectural details such as…
  + A bay window, a circular room, walk in closets, etc.
* You may not spend more than $500,000. We will be using an online cost estimator to ensure you do not break your budget.
* Your plans must include cost of walls, flooring, paint, windows, and major features like fireplaces. Furniture and other details are not to be included in the plans.
* Each group starts with a ¼ acre plot. If your house doesn’t fit, you will be docked points and not get your permit from the city.