

# Cornell Guided Notes

Biotechnology for Health (Biomedical Innovations) | 2027-02-08

Name

Period

Date

Lesson

## Lesson focus

ER-ethics debate

## Key words and questions

## Prepared details and student notes

**Essential question**  
**What is today's target?**

Debate an ethical tradeoff in ER prototype design, such as privacy versus visibility in floor-plan layout. Big idea: Every design decision in a healthcare space carries an ethical dimension -- engineers must make those tradeoffs explicit and defensible.

**My notes, examples, and questions**

**Key words**  
**What vocabulary unlocks the lesson?**

- design brief
- floor plan
- process flow
- staffing
- human factors

**My notes, examples, and questions**

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## Cornell Notes - Continued

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**Must-know ideas**  
**What should I understand by the end?**

- How to identify an ethical tradeoff embedded in a concrete design decision, such as privacy versus visibility in an ER floor plan.
- How to defend a position on that tradeoff using CER structure.
- How ethical constraints function as design criteria that constrain solution options.

**My notes, examples, and questions**

**Process notes**  
**What happens during class?**

- 0-10: Frame the week: overview of prototype build and the ethics tradeoff at stake in layout design
- 10-25: Debate prep: write two questions and draft your CER position on the assigned ethics tradeoff
- 25-55: Structured debate: argue positions and record the strongest counterpoint
- 55-65: Connect to prototype: which floor-plan decision does this debate constrain?
- 65-77: Submit two questions, CER contribution, and reflection
- 77-80: Pre-lab preview: Wednesday you will build the floor plan -- review what you will need

**My notes, examples, and questions**

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#### Steps and evidence What do I do and turn in?

- Prepare two questions about an ethical tradeoff in ER layout design.
- Draft a CER position on the tradeoff.
- Debate the position with peers and record counterarguments.
- Connect the ethics to a concrete floor-plan decision.
- Submit two questions, one CER contribution, and a reflection.

Evidence: CER - CER contribution on an ER layout ethics tradeoff (e.g., privacy versus visibility), plus two questions and a reflection connecting the ethics to a prototype decision.

#### My notes, examples, and questions

#### Checks for understanding How do I know I got it?

- You can defend a position on an ER design ethics tradeoff.
- You can tie an ethical principle to a design decision.

#### My notes, examples, and questions

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**Lab or safety notes**  
**What must I handle carefully?**

Supplies:

- Lab computers with CAD or floor-plan software
- Graph paper for hand sketches
- Ruler and pencil
- Printout of design brief
- Patient-flow diagram from prior week
- Shared project folder for exports

**My notes, examples, and questions**

### Summary

Today's lesson focused on ER-ethics debate. The main target was: Debate an ethical tradeoff in ER prototype design, such as privacy versus visibility in floor-plan layout. The evidence of learning is CER: CER contribution on an ER layout ethics tradeoff (e.g., privacy versus visibility), plus two questions and a reflection connecting the ethics to a prototype decision.. In my own words, the most important idea from today is:

**My summary**

### My final question or connection