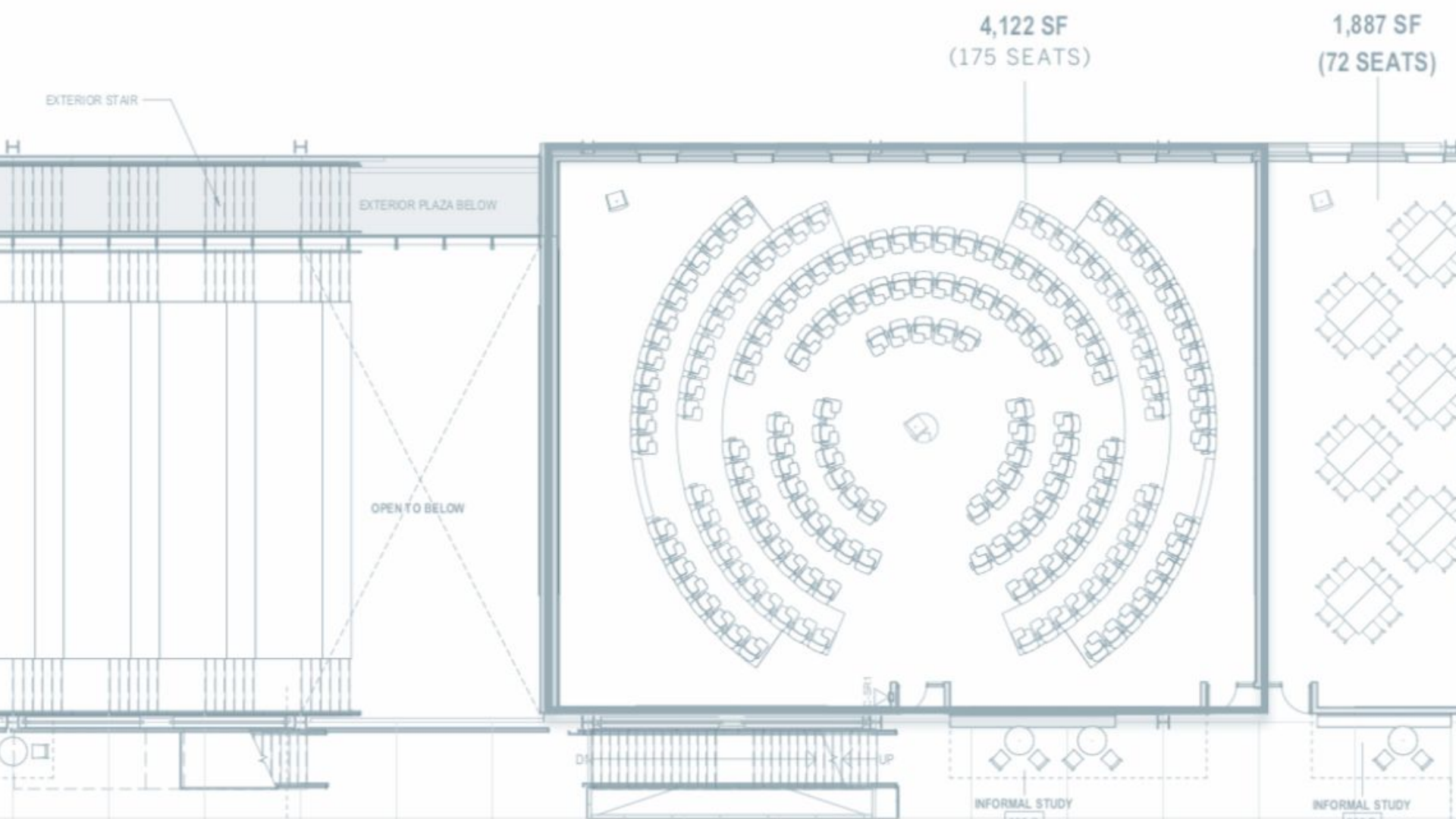


Teaching in the Round and 2035 CIF

Wade Fagen-Ulmschneider
Computer Science, University of Illinois
waf@illinois.edu

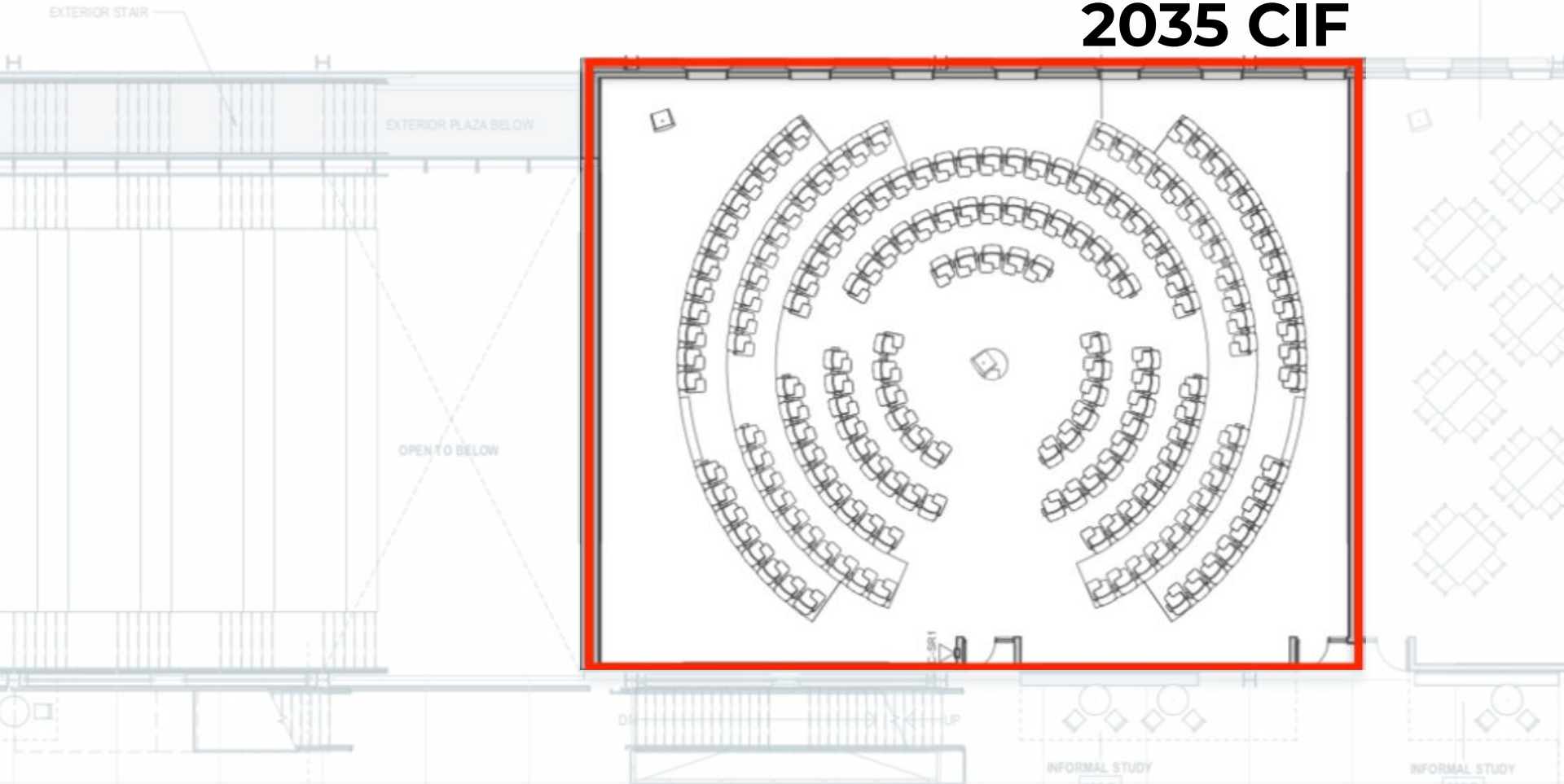
Slides and References: <https://waf.cs.illinois.edu/slides/su21-ae3/>



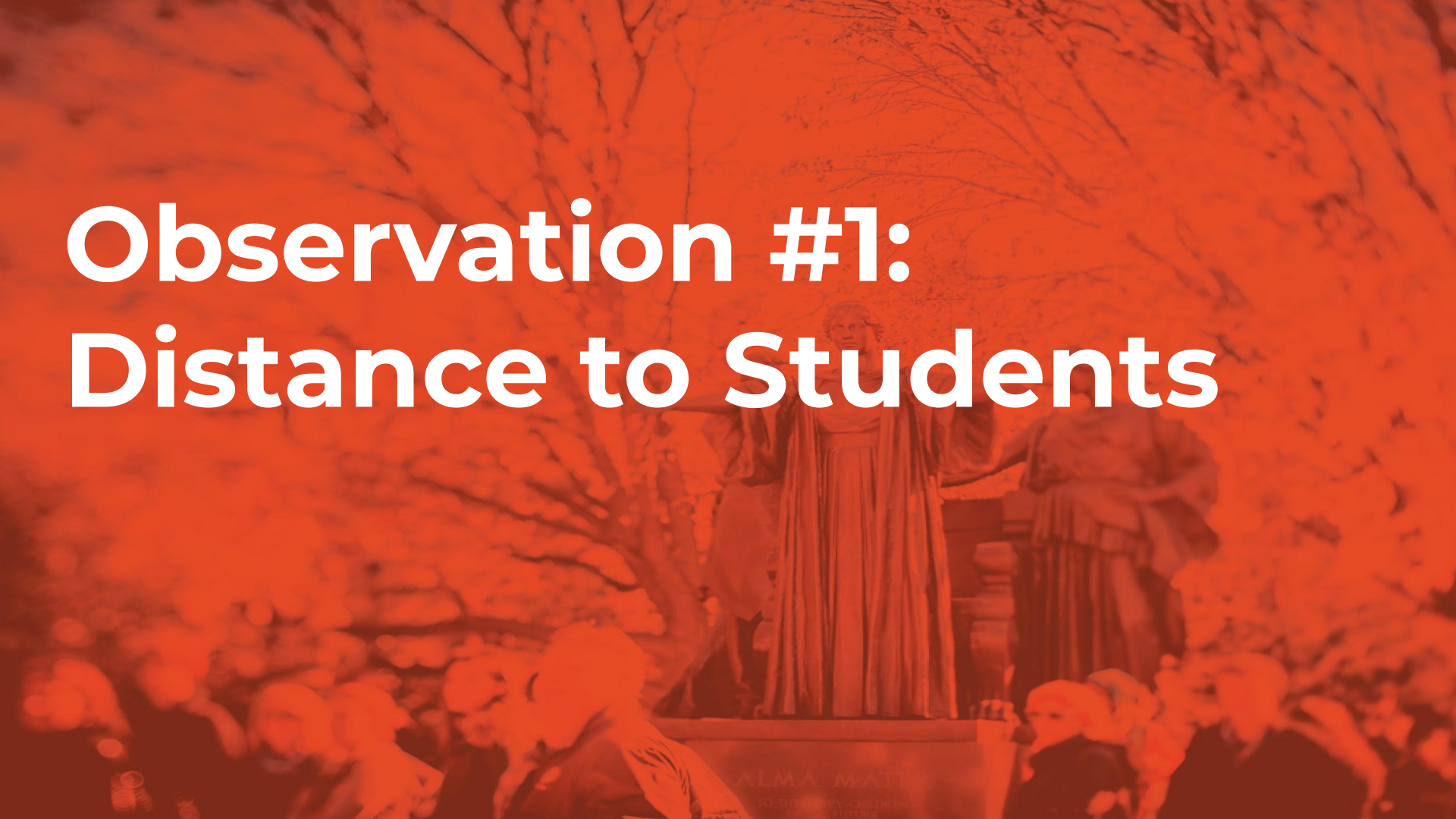
4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

2035 CIF



Observation #1: Distance to Students



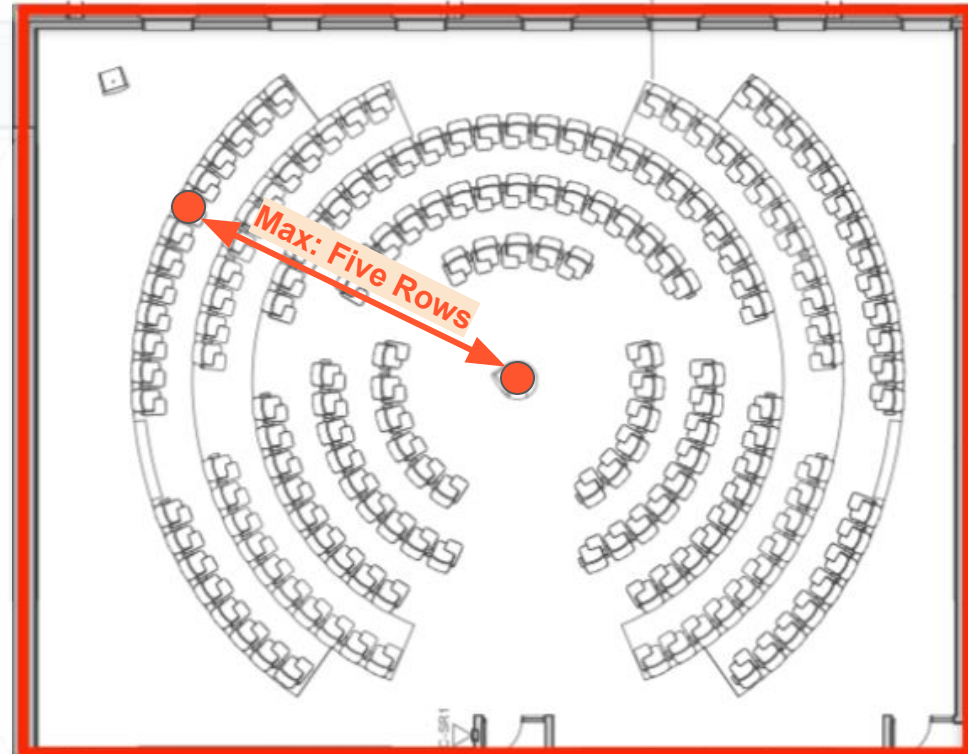
Observation #1: Distance to Students

4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

2035 CIF

- Max: 5 rows back



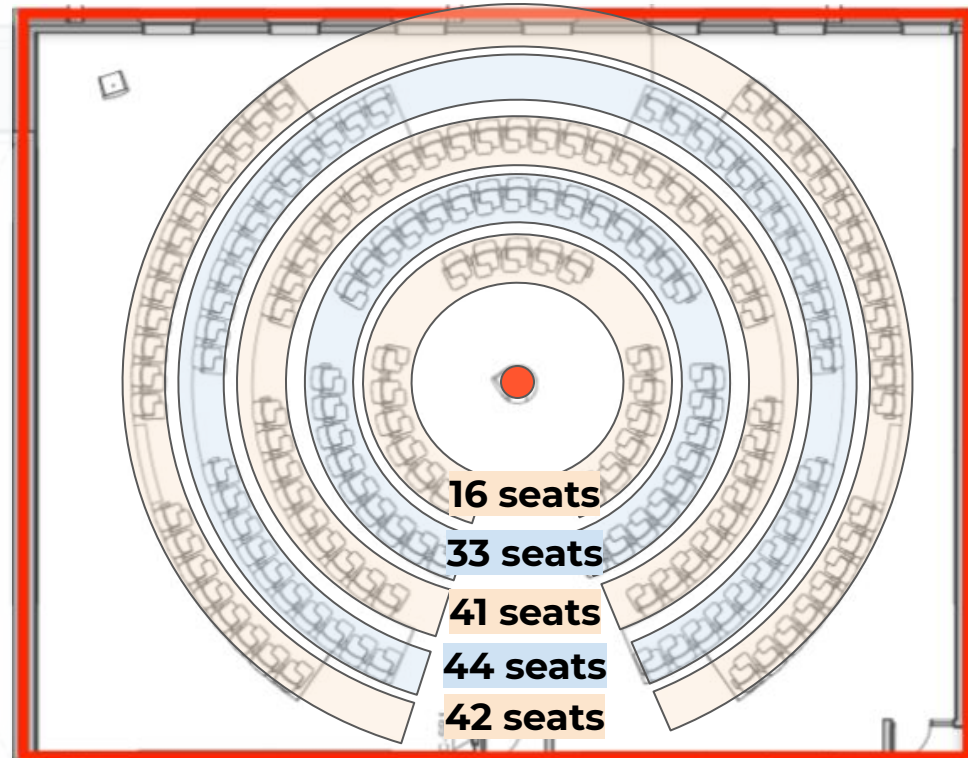
Observation #1: Distance to Students

4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

2035 CIF

- Max: 5 rows back
- Row Distribution:
 - Row 1: 16 seats
 - Row 2: 33 seats
 - Row 3: 41 seats
 - Row 4: 44 seats
 - Row 5: 42 seats



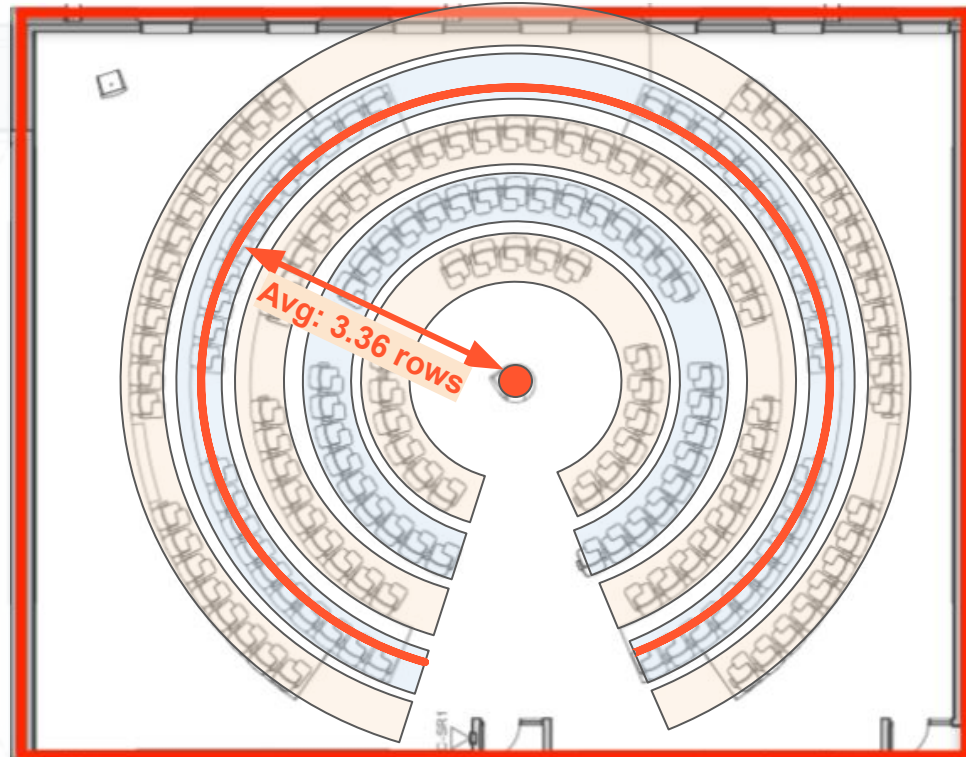
Observation #1: Distance to Students

4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

2035 CIF

- Max: 5 rows back
- Row Distribution:
 - Row 1: 16 seats
 - Row 2: 33 seats
 - Row 3: 41 seats
 - Row 4: 44 seats
 - Row 5: 42 seats
- Average:
3.36 rows back



Observation #2: Degree of View



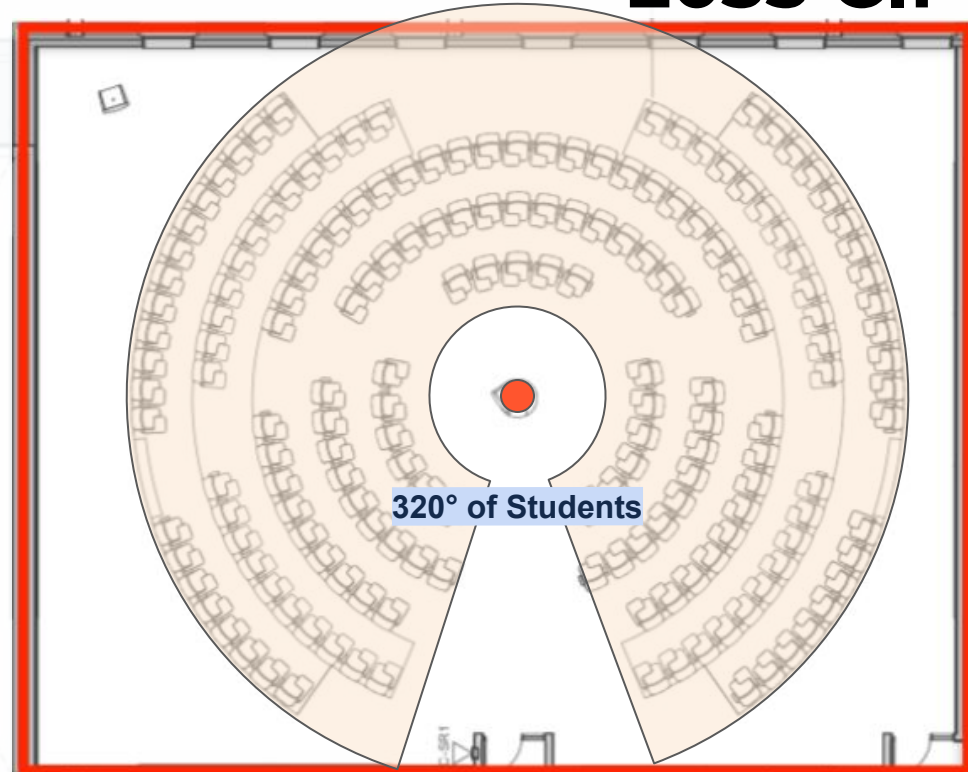
Observation #2: Degree of View

4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

2035 CIF

- 320° of Students



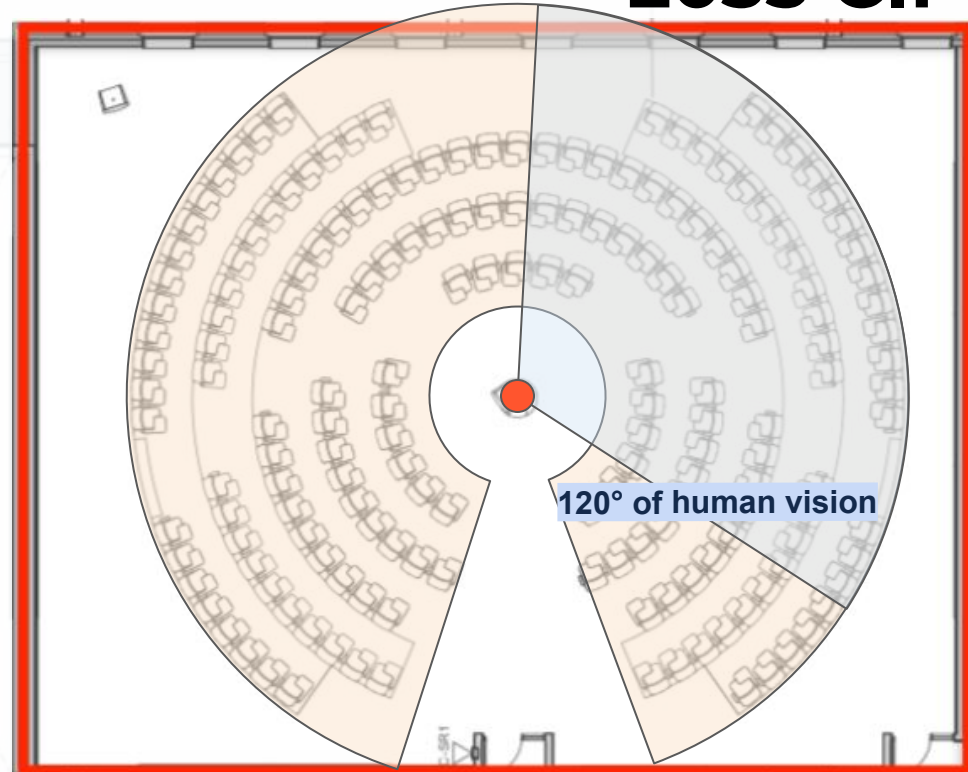
Observation #2: Degree of View

- 320° of Students
- Human Rane: 120° [1]

4,122 SF
(175 SEATS)

1,887 SF
(72 SEATS)

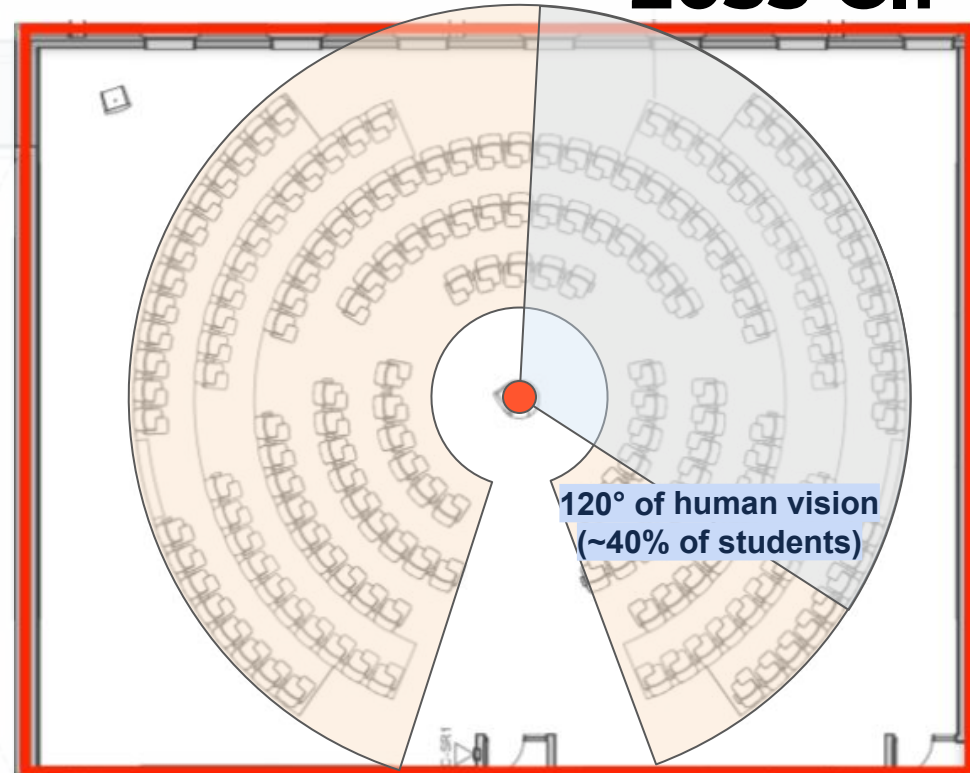
2035 CIF



[1]: https://en.wikipedia.org/wiki/Vision_span

Observation #2: Degree of View

- **320° of Students**
- **Human Rane: 120° [1]**
 - (~40% of students)



[1]: https://en.wikipedia.org/wiki/Vision_span

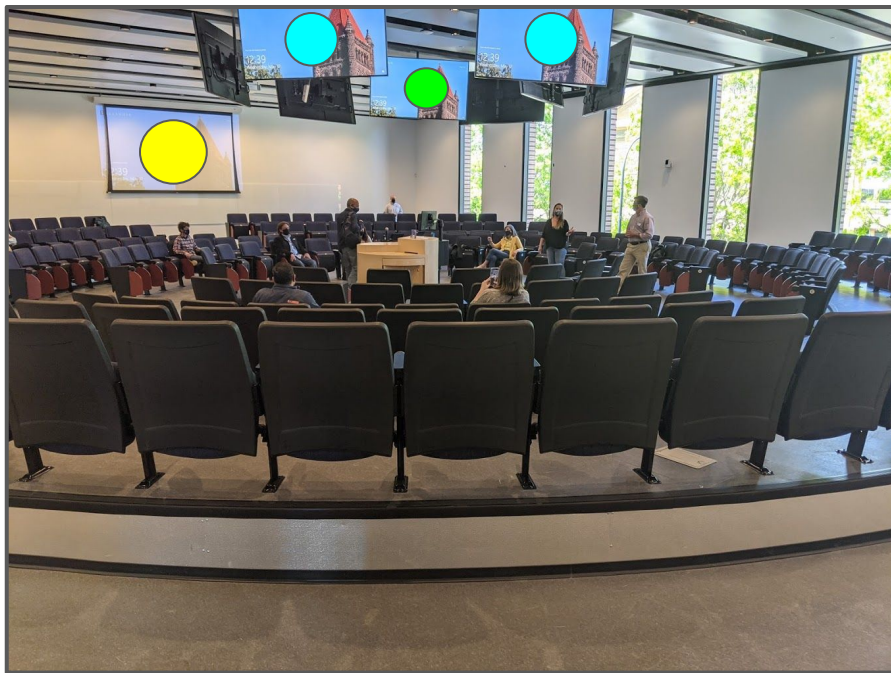
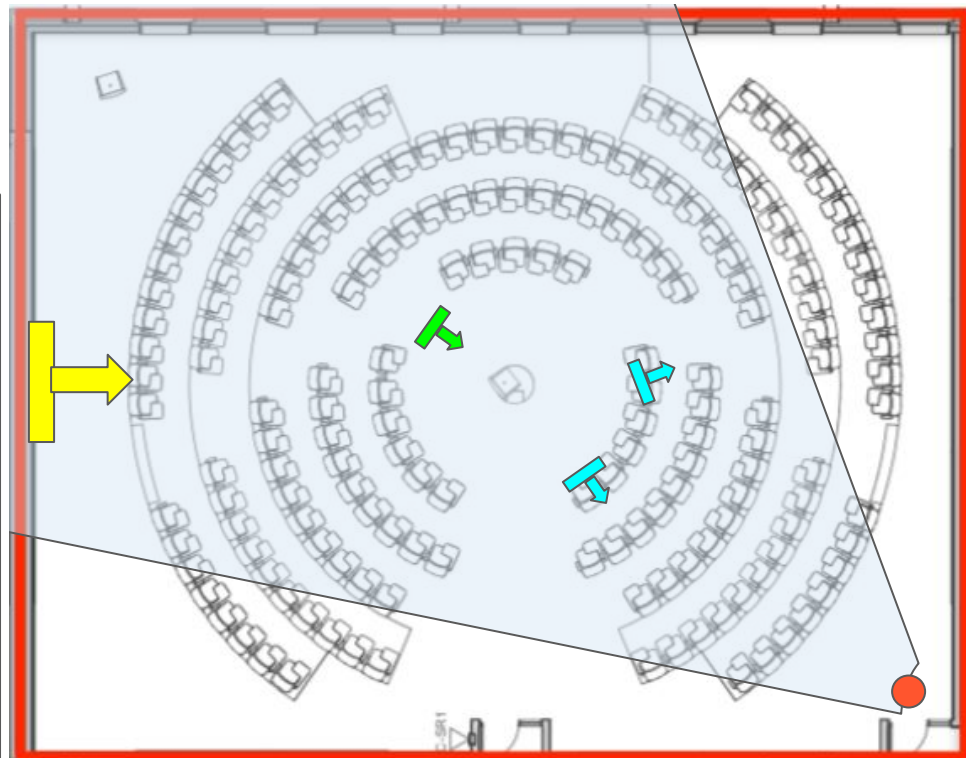
Observation #3: Screens and Projection

A photograph of a statue of Alma Mater on a pedestal, surrounded by a crowd of people, with a red overlay. The statue is a woman in a long dress, holding a book. The pedestal has the words "ALMA MATER" and "TO THE FUTURE" on it. The background shows a crowd of people and trees. The entire image is covered with a semi-transparent red filter.



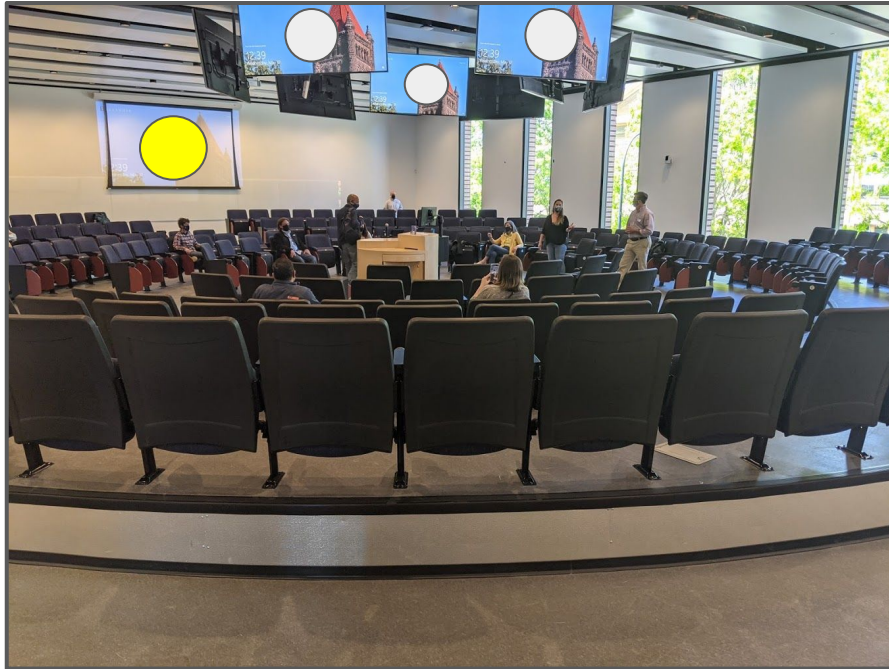


2035 CIF

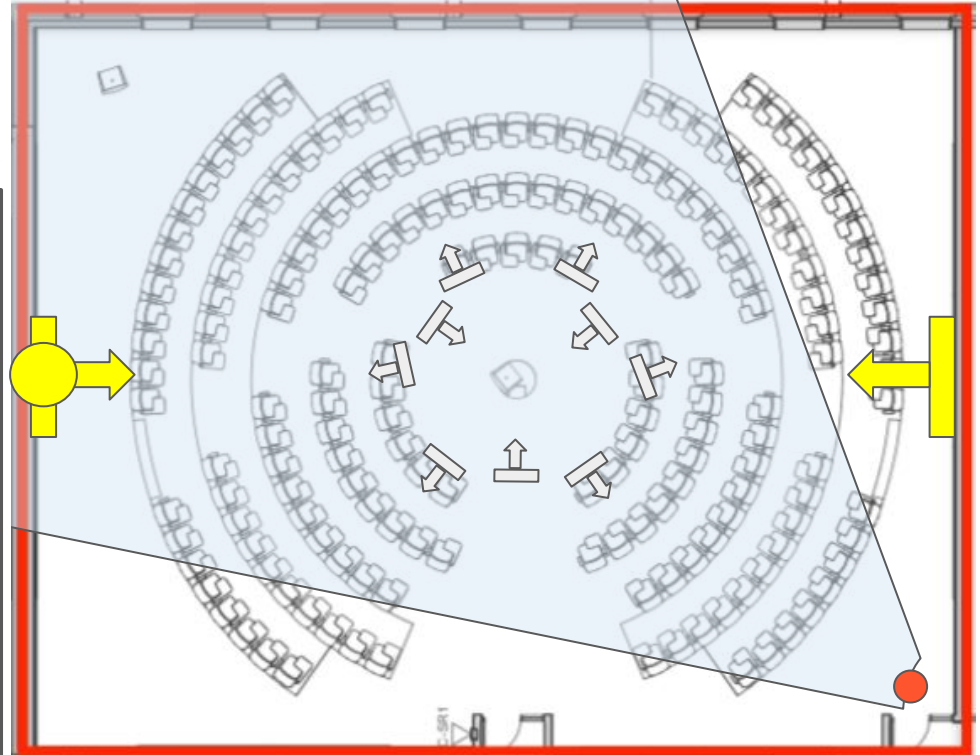


Obs. 3: Projections

- 2x Outer Wall Projectors



2035 CIF

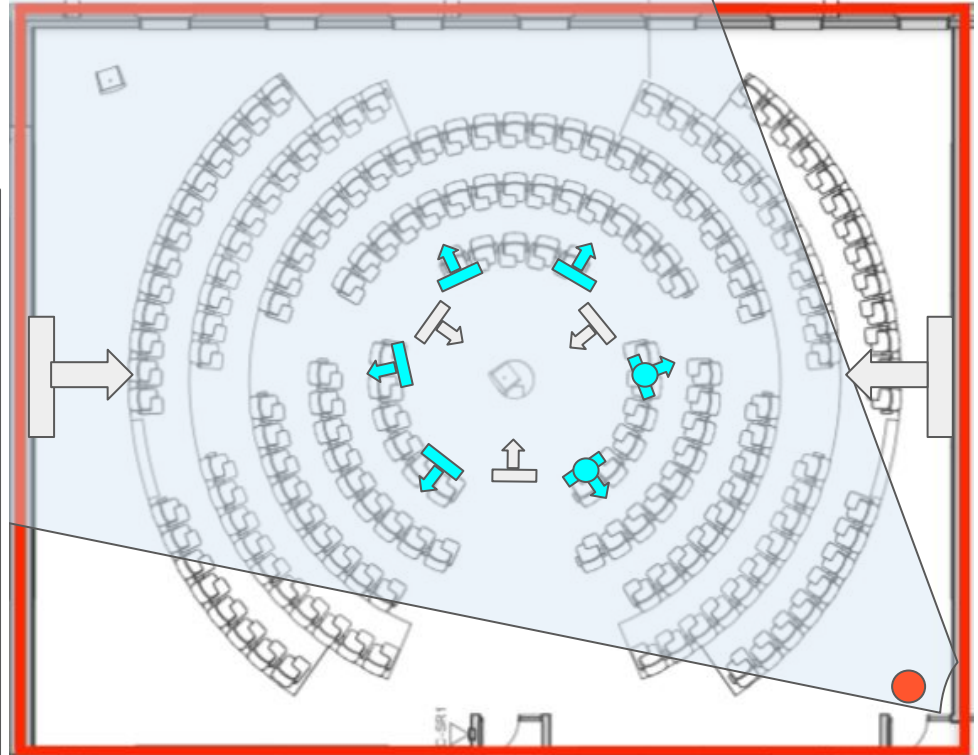


Obs. 3: Projections

- 2x Outer Wall Projectors
- 6x First-Row Screens



2035 CIF

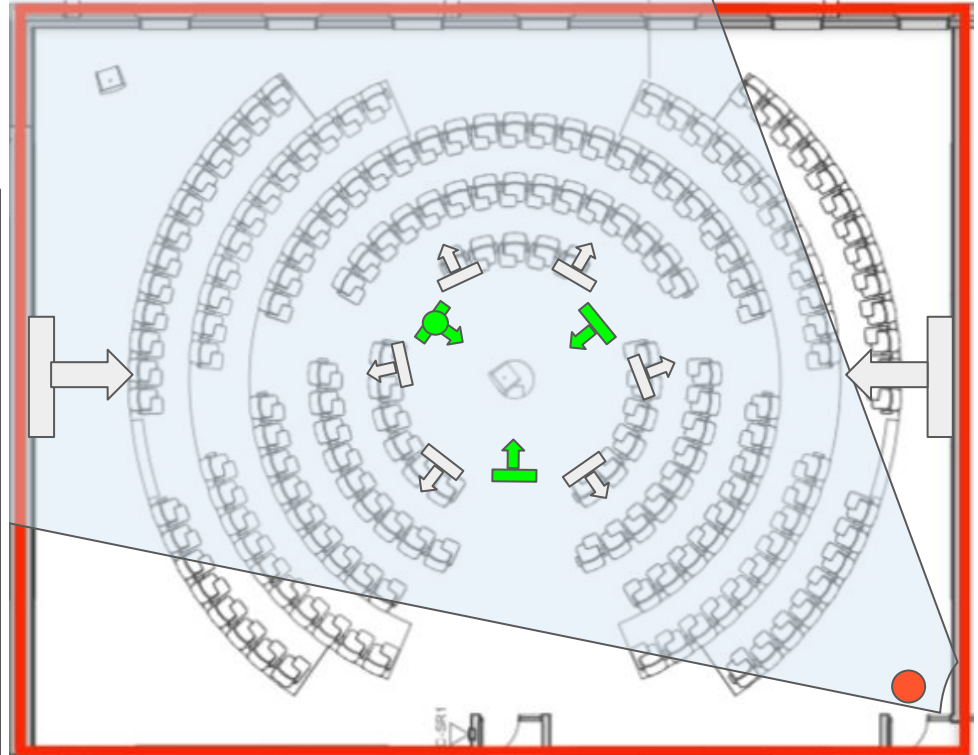


Obs. 3: Projections

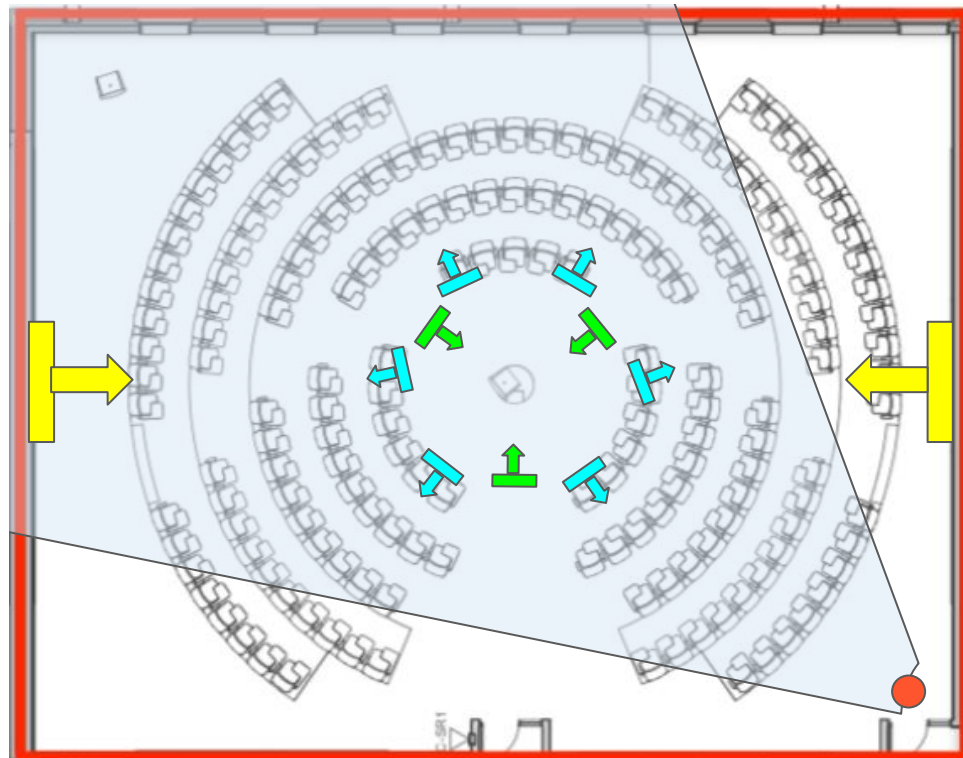
- 2x Outer Wall Projectors
- 6x First-Row Screens
- 3x Far Screens

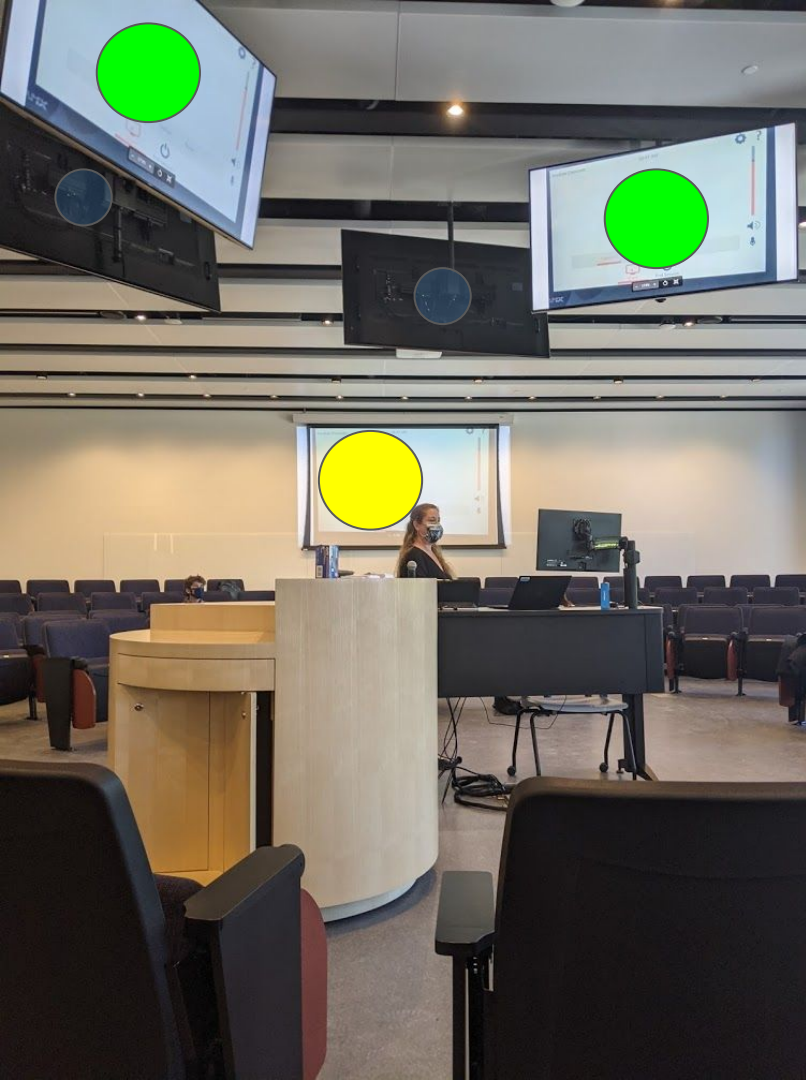


2035 CIF

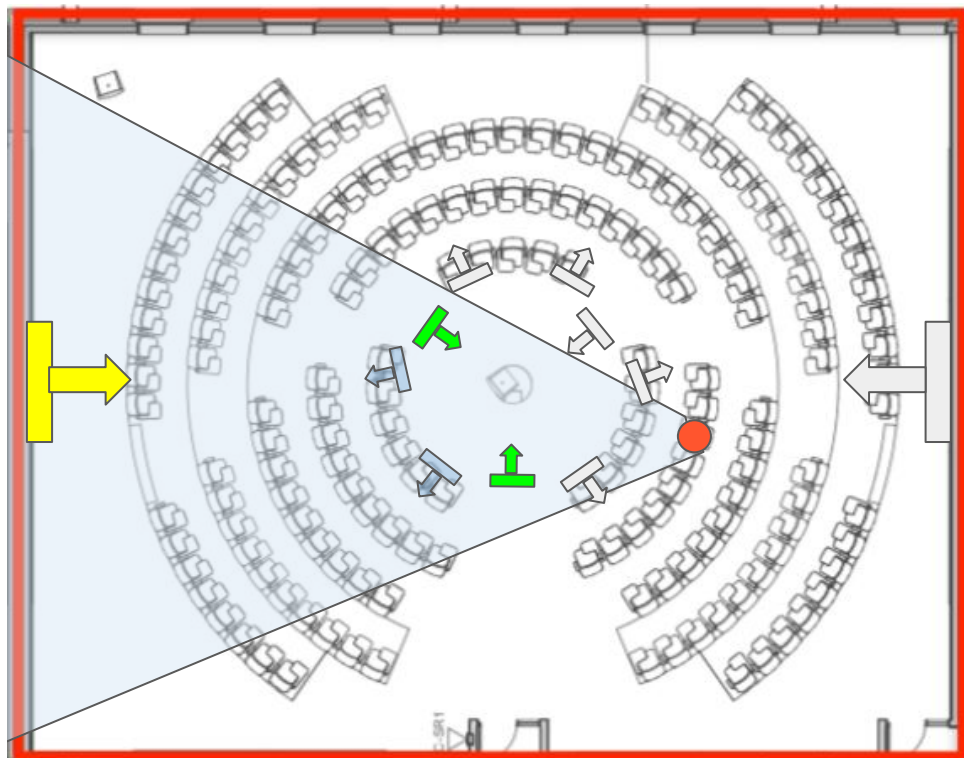


2035 CIF





2035 CIF



Existing Classrooms



The image features a central statue of a woman in a long, flowing dress, standing on a pedestal. She is surrounded by a crowd of people, some of whom are visible in the foreground. The background is filled with bare trees, suggesting a winter or late autumn setting. The entire image is overlaid with a solid orange color, and the text "Existing Classrooms" is written in white, bold, sans-serif font across the middle.

Module 3.6

-
- A diagram of a cell showing the Golgi apparatus (green, stacked sacs) and lysosomes (orange, spherical organelles). Yellow arrows point to the Golgi apparatus, and orange arrows point to the lysosomes.

-

-
- Membrane
Lysosomes: digestive enzymes

“It does not feel big.”

“You can hear the students ask questions.”





Oregon State University - Learning Innovation Center
200 LINC with a 176 seat capacity

“I can get to all the students easily.”

“Creates a different learning environment.”





**Washington State University
G45 SPARK with a 270 seat capacity**

“Takes away the hierarchy that is set up in the classroom so it is more welcoming to students.”

“Your back is always to someone.”



Three Strategies for 2035 CIF



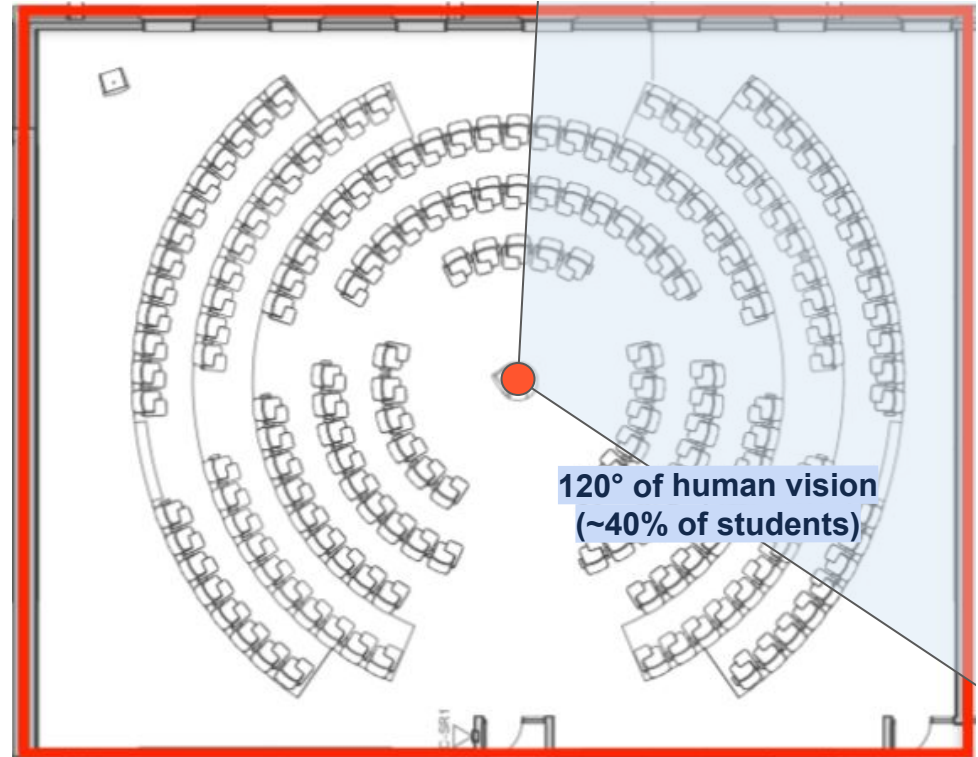
Strategy #1



Strategy #1: Classroom-Wide Discussion (Motivation)

2035 CIF

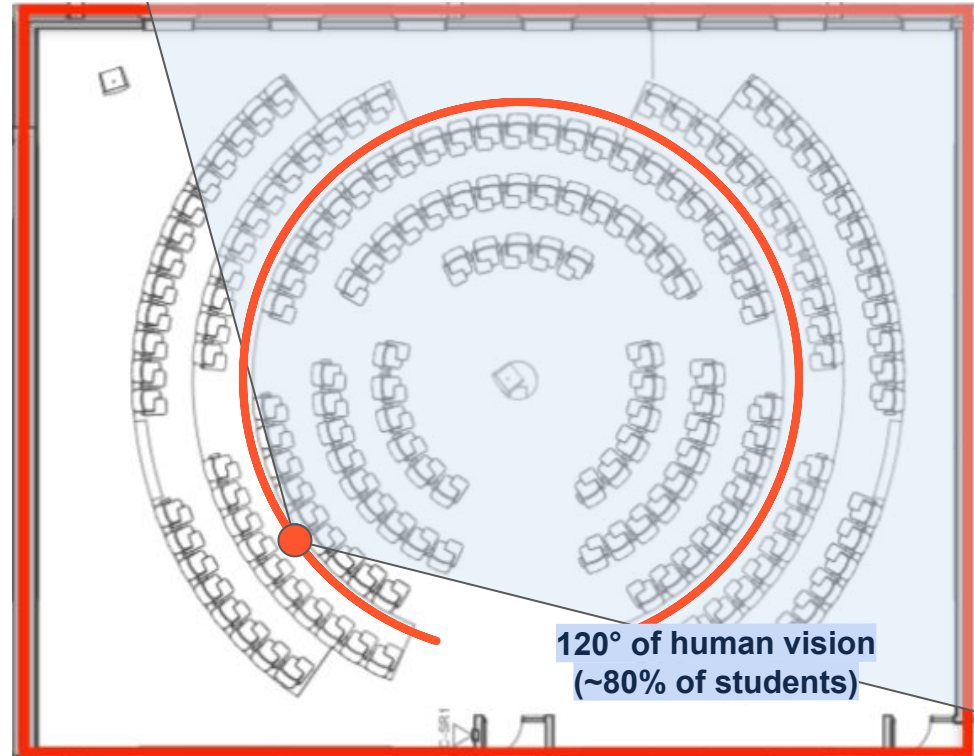
Instructors can only see
40% of students...



Strategy #1: Classroom-Wide Discussion (Motivation)

2035 CIF

...but an average student
can see ~80% of other
students!



Strategy #1: Classroom Discussion

The “classroom in the round” is specifically well suited for engaging students in discussion -- **they can actually see each other!**

Strategy #1: Classroom Discussion

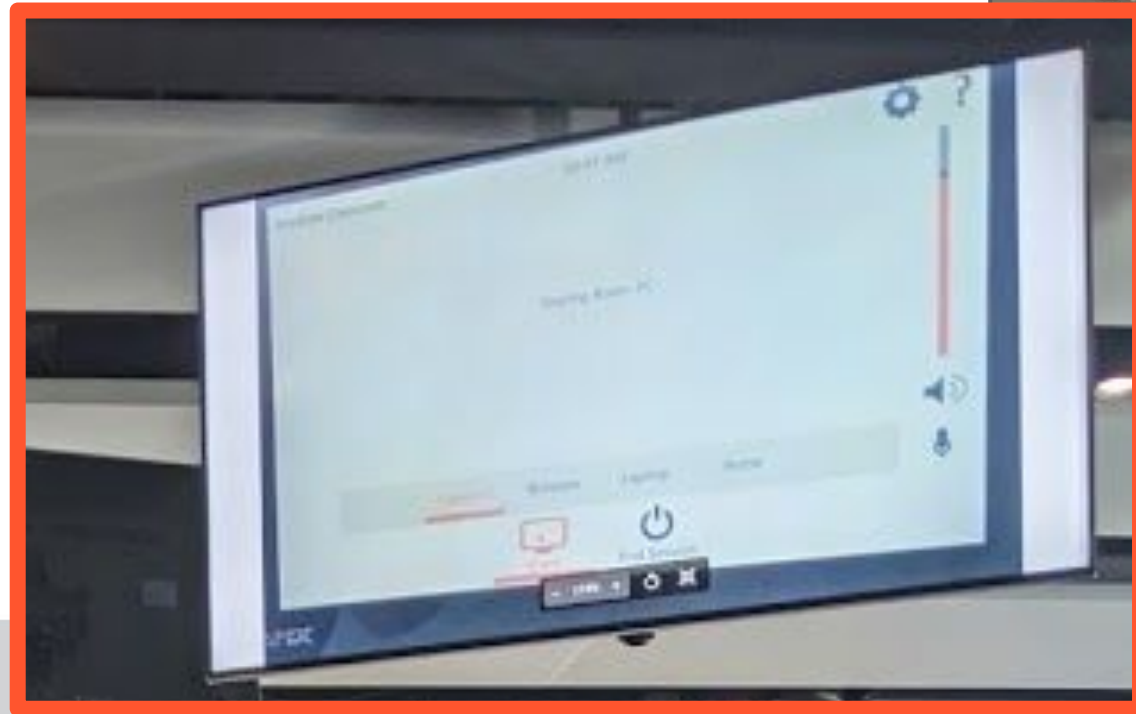
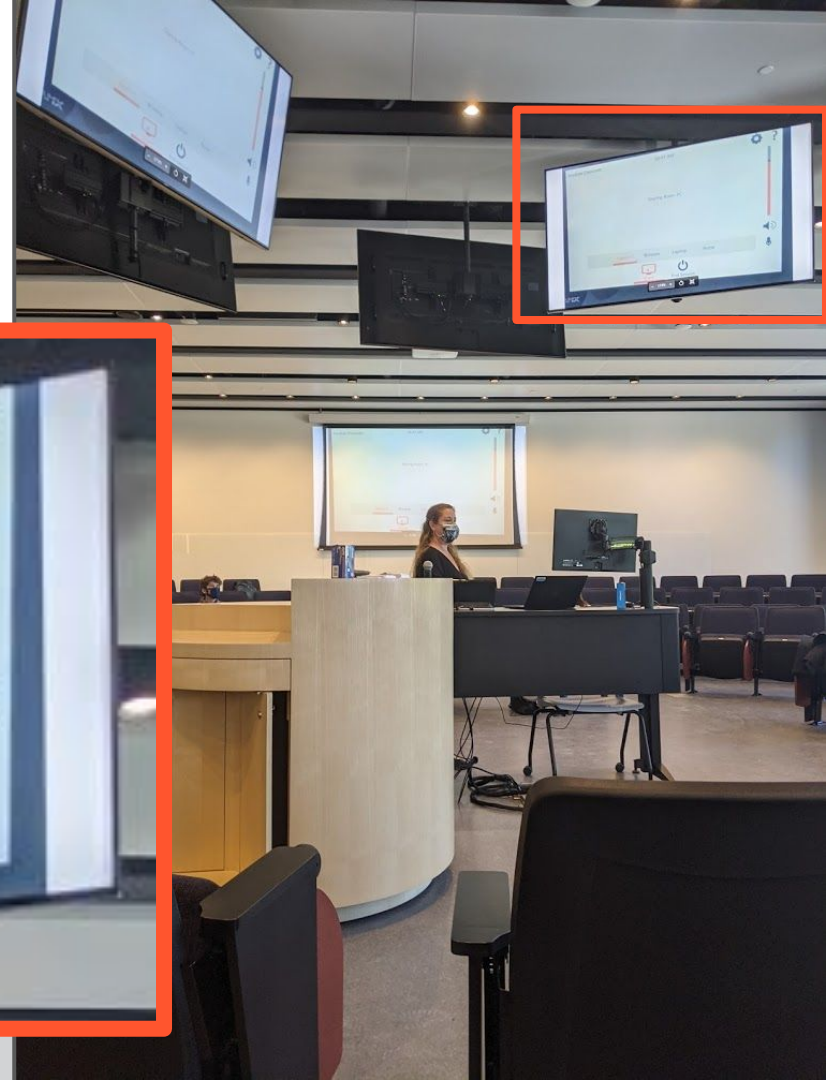
The “classroom in the round” is specifically well suited for engaging students in discussion -- **they can actually see each other!**

- *I think this may be the perfect space for meaningful discussion on course-wide polls/etc (think-pair-share, etc).*

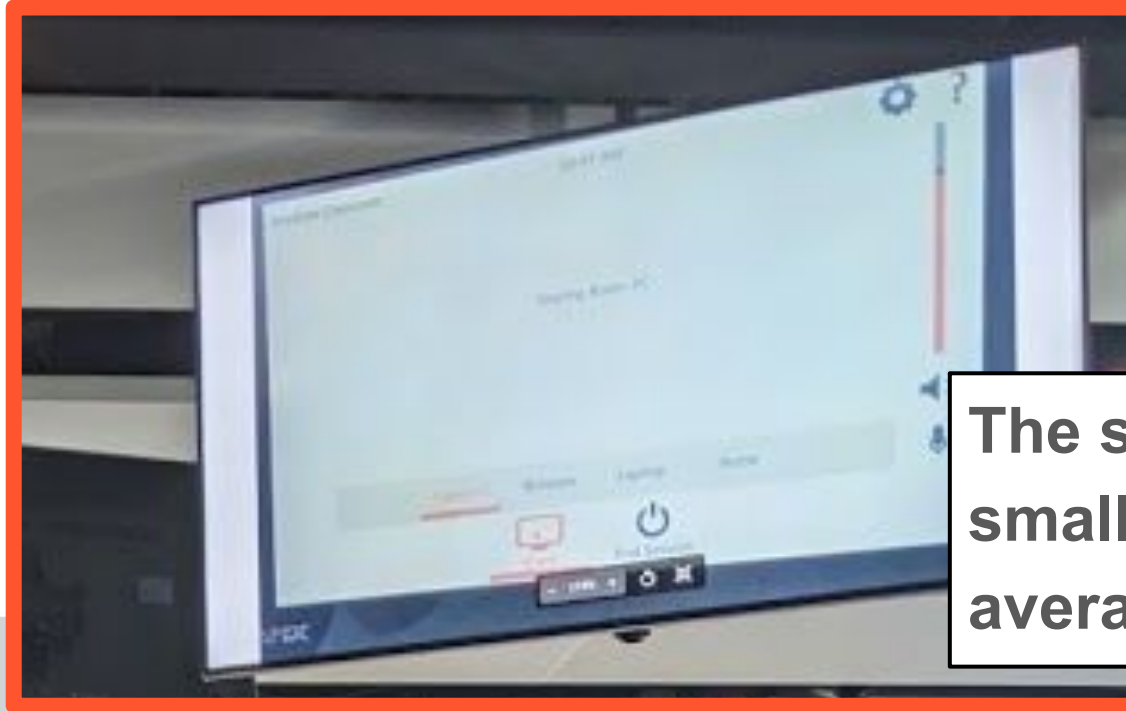
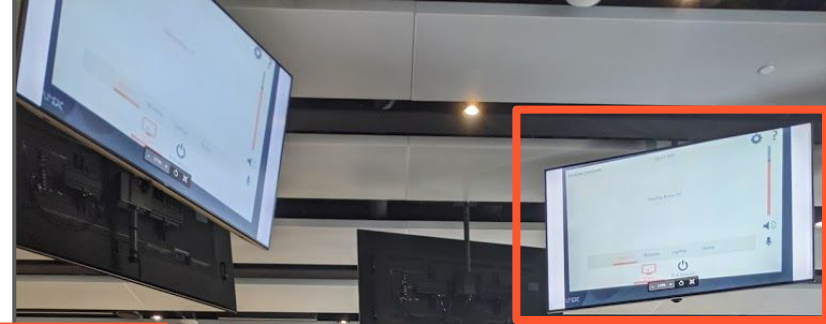
Strategy #2



Strategy #2: Limited Use of Screen (Motivation)



Strategy #2: Limited Use of Screen (Motivation)



The screens are really small or awkward to the average student.

Strategy #2: Limited Use of Screen

Screens are either at a terrible angle or far away from nearly every seat. The screens in this room are best used for **only large diagrams or very large text.**

Strategy #2: Limited Use of Screen

Screens are either at a terrible angle or far away from nearly every seat. The screens in this room are best used for only large diagrams or very large text.

- My rule for 2035 CIF: 42pt or larger for ALL text.

(This is 42pt.)

Limited use of screens will be challenging:

- Hard to do live code/examples in 42pt font.
- Hard to do handwriting on tablets at 42pt.

Strategy #3



Strategy #3: Student-Guided Learning (Motivation)



Washington State University, G45 SPARK with a 270 seat capacity

“It does not
feel big.”

&

*“Takes away the hierarchy that is
set up in the classroom so it is
more welcoming to students.”*

Strategy #3: Student-Guided Learning

The “classroom in the round” sets up possibly the best large-class environment for **student-guided inquiry** on campus.

Strategy #3: Student-Guided Learning

The “classroom in the round” sets up possibly the best large-class environment for **student-guided inquiry** on campus.

- *I hope to have students drive the flow of the course through the content, creating a dynamic and unique learning environment.*



ALMA MATER

TO THE STUDENT CHILDREN OF THE FUTURE

Strategies for 2035 CIF

- Strategy #1: Classroom-Wide Discussion
- Strategy #2: Limited Use of Screen
- Strategy #3: Student-Guided Learning

You are welcome into my class anytime!

- CS 240: Intro to Computer Systems
- T/R from 12:30pm-1:45pm
- 2035 CIF

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