



How Can Educators Design Modern Environments to Enhance Active Learning?

**Education is under growing
pressure**

demands for change

IMPROVE GRADUATION RATES

IMPROVE LEARNING OUTCOMES

DEVELOP 21ST CENTURY SKILLS

COST & ACCESS

GLOBAL COMPETITIVENESS

Student expectations

ENGAGING EXPERIENCES

SUPPORT MY LEARNING STYLE

RELEVANT TO ME

RETURN ON INVESTMENT

behaviors are changing

learning-centered

new pedagogies

project-based learning

peer-to-peer learning

flipped classroom

online learning

blended learning

multi-modal learning

STUDENT SUCCESS

Grades + College = Success

employers demand 21st century skills

Critical thinking

Problem solving

Innovation

Effective communication

Effective collaboration

Self-directed learning

Information and media literate

Globally aware

Civically engaged

Financially and
economically literate

Tensions



From

Passive

Teacher centered

Analog

Teacher as source of knowledge

Whole class learning

• To

• Active

• Student centric

• Digital AND Analog

• Content is ubiquitous

• Individualized learning

Engagement

Meanwhile, our students get **LESS ENGAGED** each year they are in school.

The Gallup Student Poll



active learning is...

a definition...

active learning is an individual's pursuit of knowledge acquisition in a particular subject matter by engaging in a combination of multiple experiences to achieve this goal, including:

- a) individual study;
 - b) dyadic (two person) interactions for short-term work; and
 - c) team work (three or more individuals) for long-term projects
- ...enabling interaction and learning from one another.

active learning =
physical movement
=
increased student
engagement

- more square feet per person
- engage all senses supports cognitive mapping
- change of posture supports brain movement
- remember, the physical “envelop” [walls, furnishings, lighting, swivel seating] are all important to support ALES’s ecosystem

Active Learning Classroom

- **Students are engaged as active participants and are central to the process of learning**
- **Dynamic learning spaces: no front, back or sides**
- **Compels student to participate – “no place to hide”**
- **Flexible and adaptive approaches to learning**
- **Fostering innovation – the 4C’s: creativity, communication, collaboration and critical thinking skills**

Learning space influences behavior

**“what we have to
learn to do, we
learn by doing.”**

- Aristotle

adoption of new pedagogies



Learner-centered /
constructivist pedagogy



Instructors as guide
on the side



Discovery and team-
based activities

Space Impacts Behavior

So..... are spaces changing too?

Reading

Writing

'Rithmetic?



but...

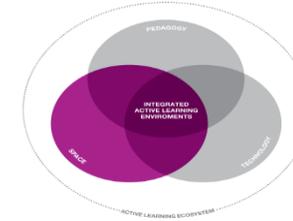
has the classroom
experience really
changed?

have spaces for
learning kept
pace?



space remains the same

•OBSERVATIONS + INSIGHTS



•History repeating itself



Paris, France



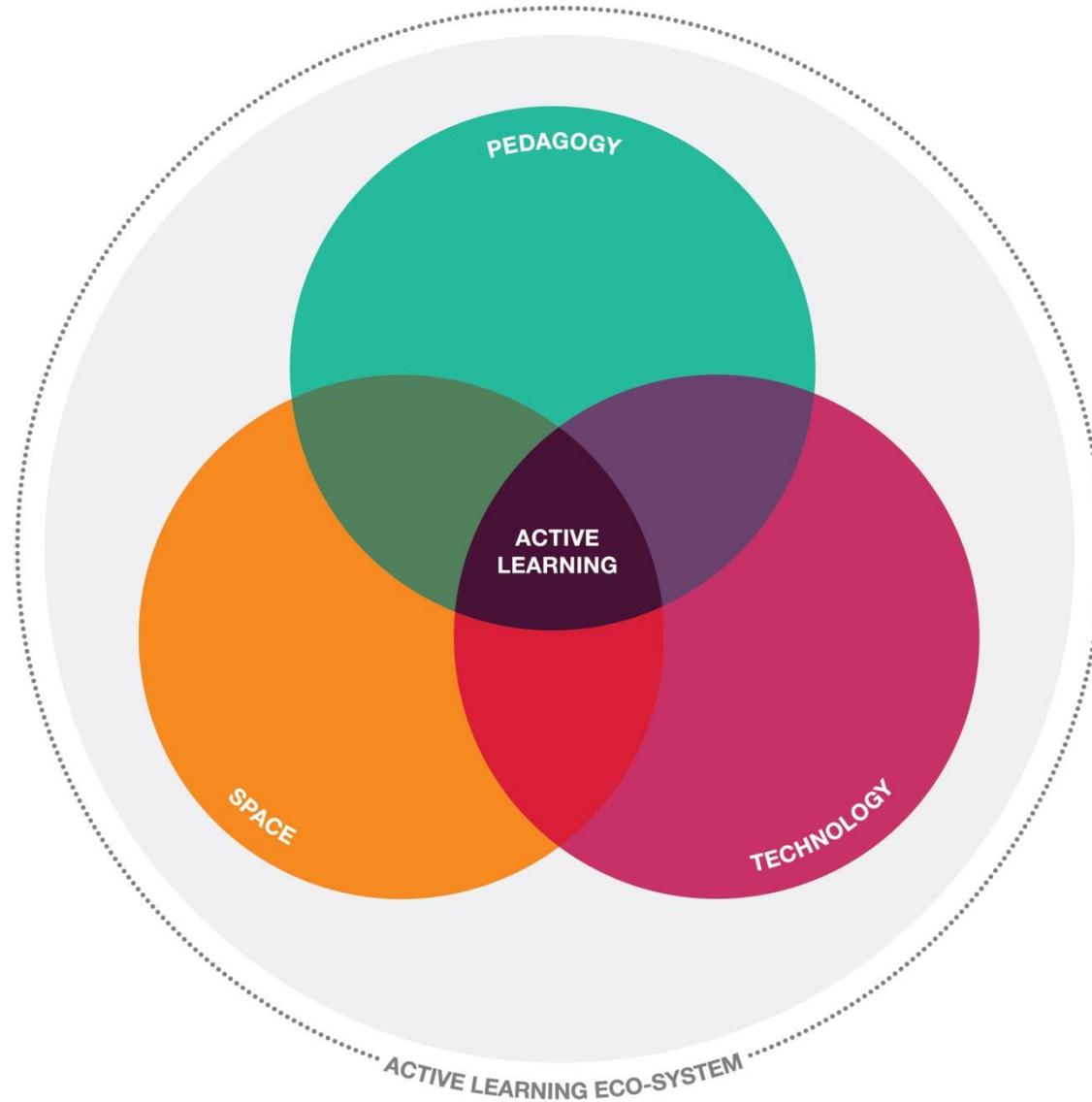
Delhi, India





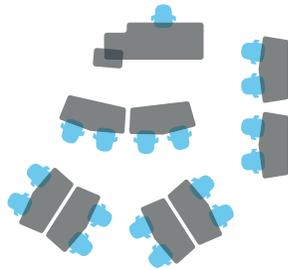


paradigm shift

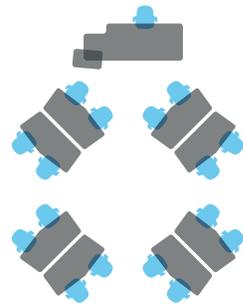


SUPPORT FOR MOVEMENT

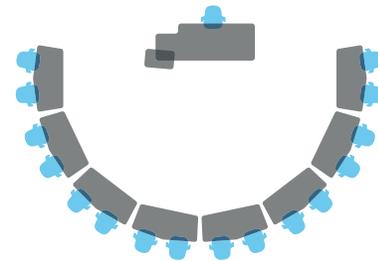
Many Modes of Learning



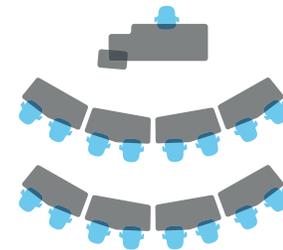
PERSONALIZED
LEARNING



PEER-TO-PEER
+ GROUP



DISCUSSION
+ PRESENTATION



IN-CLASS LECTURE
+ REVIEW

STEELCASE STUDENT SUCCESS

Domains



Designing the built environment to support student success

KNOWLEDGE THOUGHT STARTERS

Zone-oriented Active Learning Classroom



KNOWLEDGE THOUGHT STARTERS

Node Classroom



KNOWLEDGE THOUGHT STARTERS

Tiered Verb Classroom



KNOWLEDGE THOUGHT STARTERS

Learning Commons



SKILLS THOUGHT STARTERS

Collaborative Spaces



SKILLS THOUGHT STARTERS

Maker Space Classroom



DEVELOPMENT THOUGHT STARTERS

In-Between Learning Spaces



DEVELOPMENT THOUGHT STARTERS

Social Commons



DEVELOPMENT THOUGHT STARTERS

Mentoring Space

















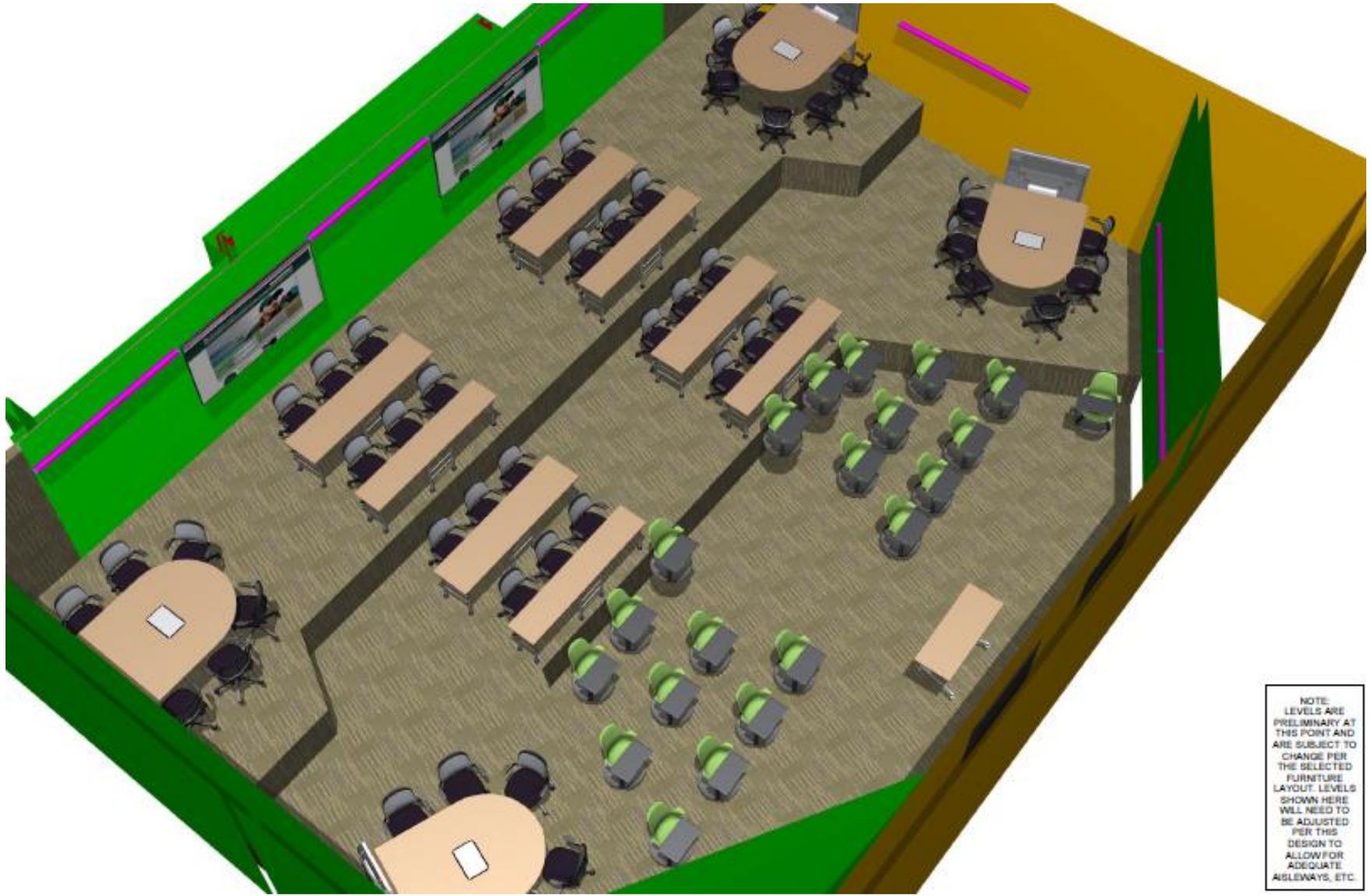
before



after



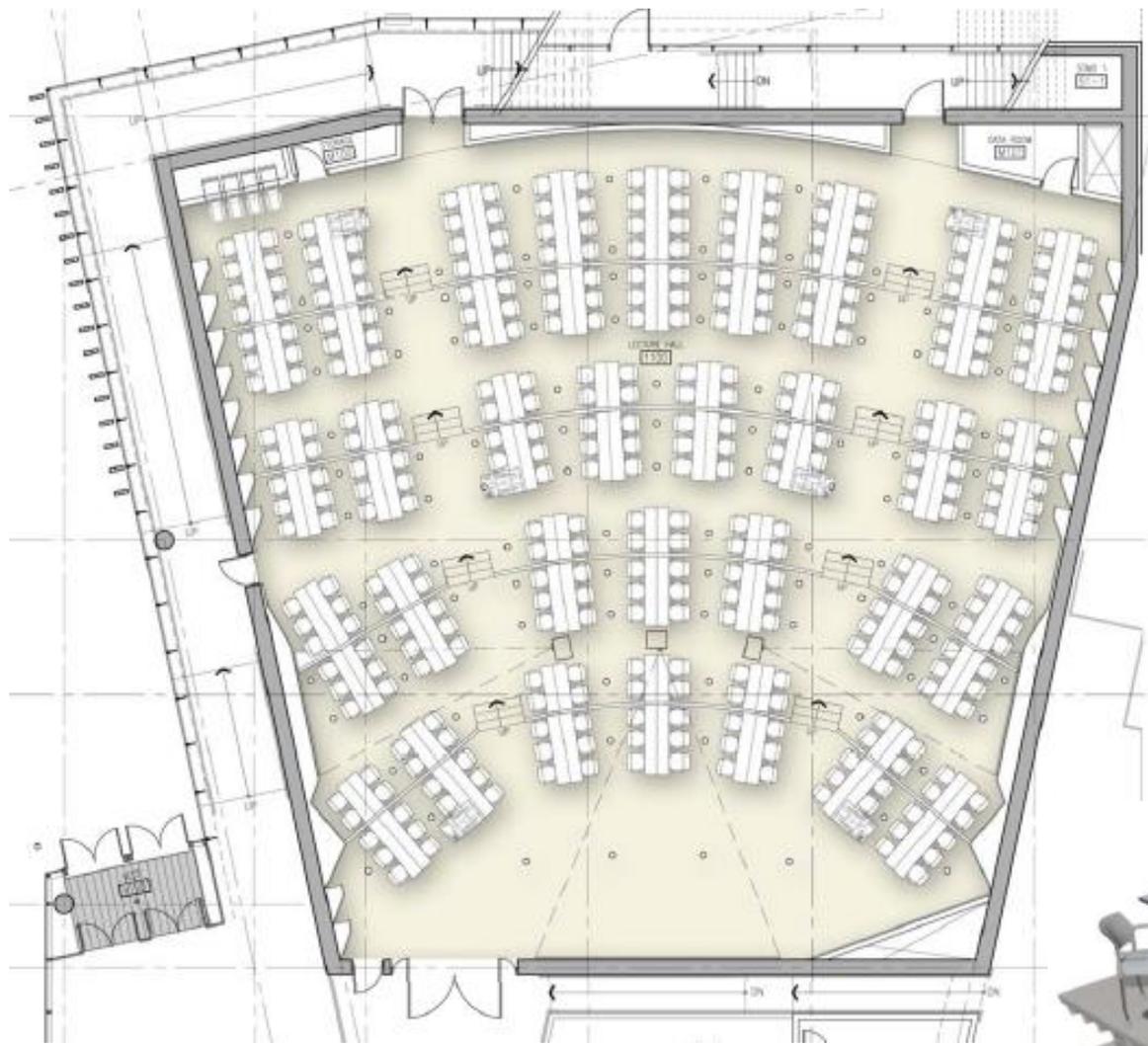


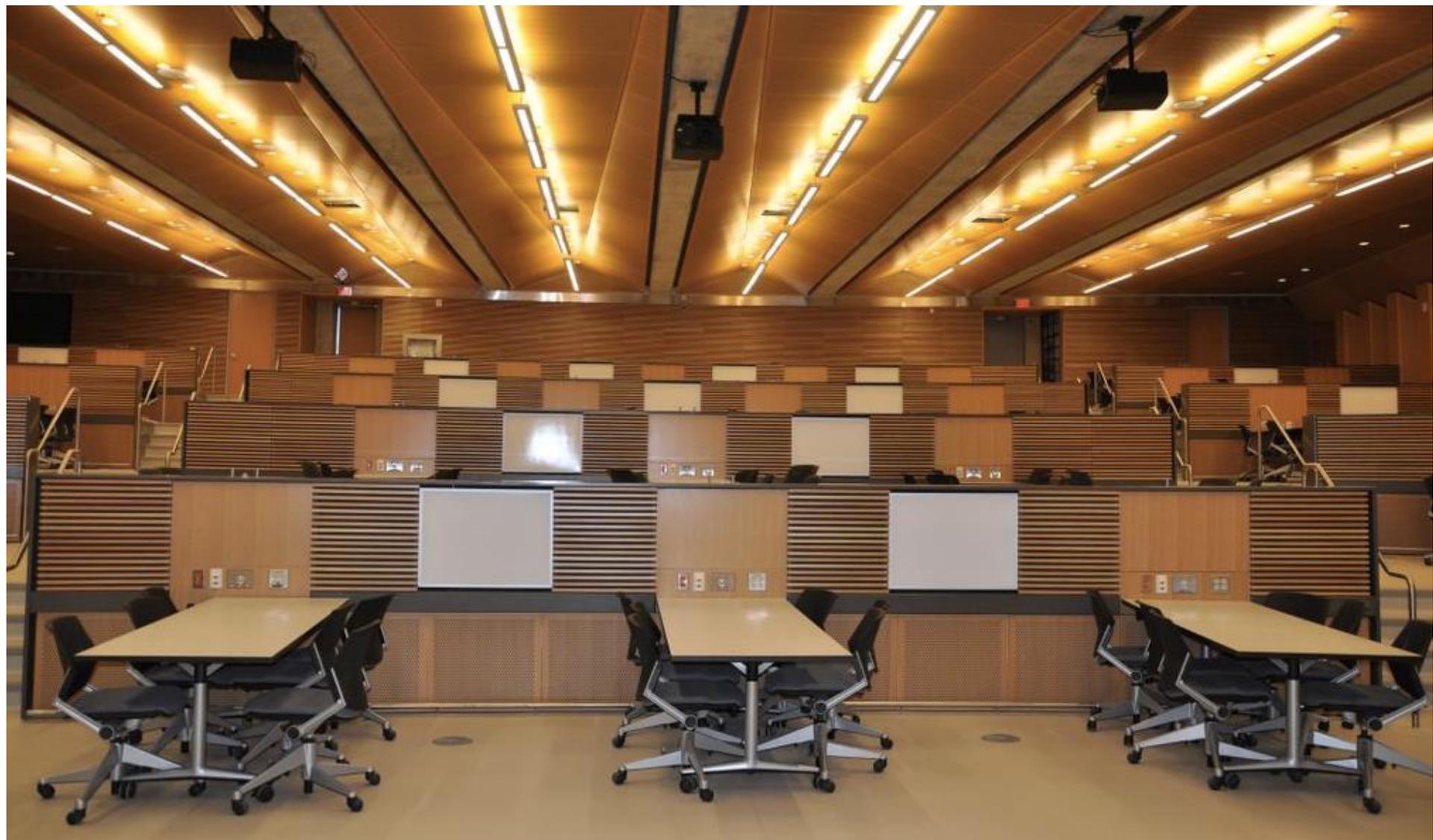


NOTE:
LEVELS ARE
PRELIMINARY AT
THIS POINT AND
ARE SUBJECT TO
CHANGE PER
THE SELECTED
FURNITURE
LAYOUT. LEVELS
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WILL NEED TO
BE ADJUSTED
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ALLOW FOR
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AISLEWAYS, ETC.



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Tuesday 9/4/2021 WEST LIBRARY

Thesis group study

STEVEN	→ collect data	→ design	→ write	→ compile literature	→ notes!
EMER	→ distribute	→ handle	→ devices	→ present	→ present
CELEST	→ organize	→ schedule	→ feedback	→ present	→ prep all

Please check that all tasks assigned to you are completed by the due date otherwise your participation grade may be affected!

Map of the transect showing the positions of the 120 plants sampled.

Map of the transect studied with position of the 120 plants sampled.





STUDENT SUCCESS

Summary

Bolstering student success is a multi-faceted undertaking

Space can help

Incorporate design principles that support students' knowledge, skills and personal development needs





Thank You