



EDS
education design studio

FRANKFURT SHORT BRUZA

HOLLIS + MILLER ARCHITECTS

CEFPI 2013

Designing New and
Innovative Educational
Environments with
Integrated Technology

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Environments with Integrated Technology

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session description:

- Educating today's students goes **beyond** the standard **walk** and **talk** of the traditional classroom.
- Environments that **nurture** and **promote collaboration** with **integration of technology** are becoming standard; critical for students emerging from the academy.



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session description:

video



session description:

- The **design of facilities** within the academy must **promote** and **foster** the concepts of interdisciplinary **collaboration**, **teaming** and **technology** integration.
- A well designed, functional facilities help generate students who are **ready** to enter the university or industry at a **competitive** level upon graduation.



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educating today's student:



Educating today's students goes **beyond** the standard **walk** and **talk** of the traditional classroom.

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educating today's student:



We need to rethink the way we are looking at the educational built environment to change the paradigm.



educating today's student:

CREATE LIFELONG LEARNERS

Create lifelong learners with a passion for self-improvement who will be intensely engaged in their own education through both personal challenges and successes.

The school should provide inspiring spaces that promote exploration and creativity, preparing every student for the future.

STABLE, STRUCTURE BASED ENVIRONMENT

Create a stable, structure based environment while sowing the seeds of excitement and creativity that will generate motivation to continue their educational path.

The school should include spaces that allow interaction and promote trust between varying sized groups of students, staff & administrators.

DEVELOPMENTALLY APPROPRIATE SPACES

Create developmentally appropriate spaces for the uniqueness of a middle school student.

The school should provide the tools necessary to engage and challenge the quickly developing mind of a middle school student.

SAFE & SECURE LEARNING ENVIRONMENT

Create a safe & secure learning environment where students can focus on exploration and development of their academic & social skills.

The school should provide physical as well as psychological support for both students & staff.

NURTURE THE 'WHOLE CHILD'

Nurture the 'whole child' by creating a support system that reaches far beyond the classroom walls to provide everyday essentials vital to a student's personal success.

The school should include a variety of spaces that are adaptable to each student's learning style.



PILLAR OF THE COMMUNITY

Make the school an engaging pillar of the community that extends beyond the classroom hours.

The school should be zoned for after hours use to engage all members of the community.

educating today's student:



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Teacher Education:
Educators need to understand how today's students learn, and teach toward those methods.



educating today's student:



*architecture by others



*architecture by others

Peer to Peer / Social Learning



educating today's student:



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Imagination + Energy



educating today's student:



Spaces within a school need to facilitate collaboration by redesigning the classroom to reduce and replace the traditional forward facing model.



exterior environments:



environments:



ENVIORNMENTS:

- That nurture
- Promote collaboration / Innovation
- Integrate technology



environments:

- Differentiated Instruction:
- Provide students with a different means to acquire content



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03 The space environments:



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Project Based Learning

- In-Depth Rigorous Project
- Facilitate Learning
- Assess Student Competence



environments:



Interaction is taking on new forms with the use of technology:

- Collaboration between peer groups
- Keep students plugged in not tuned out



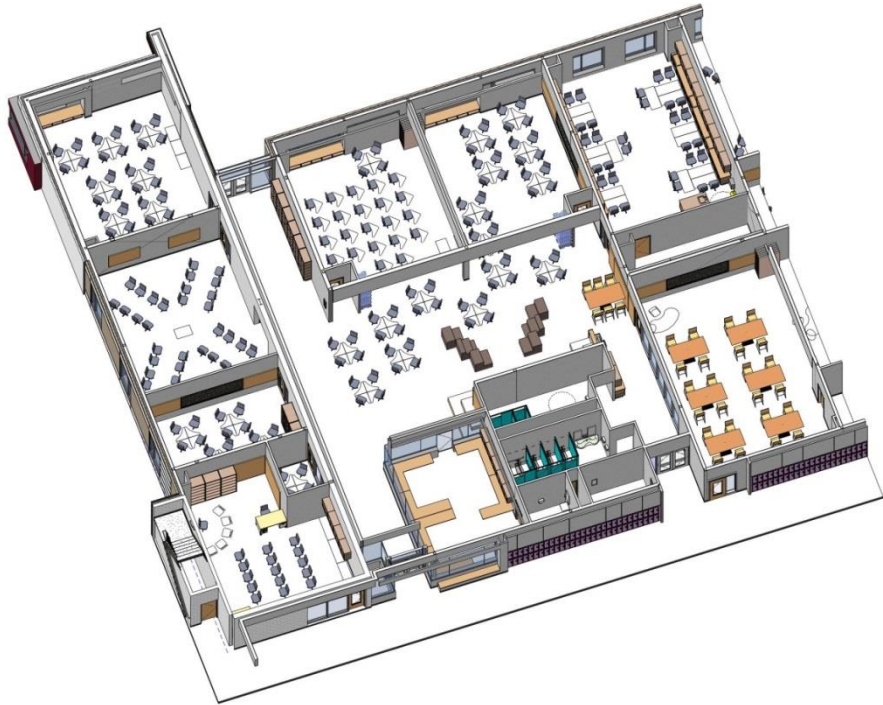


Promote and Foster :

- Collaboration
- Teaming
- Technology



design of facilities:



Diverse Space for all Learning Styles





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Students Need To:

- Move
- Hands on materials
- Express themselves in lots of ways
- Be Individuals





Flexibility

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Furniture Systems:

- Durability
- Adaptability

Spaces for Students:

- Open
- Flexible

Learning Dynamics

- Setting up environments for learning
- Classroom management
- Improve student time-on-task



design of facilities:



design of facilities:

Understand the environment:

Must Be Adaptable to incorporate requirements from:

- Students
- Facility
- Curriculum



Learning Objective 3



video

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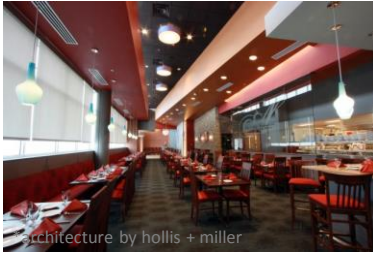
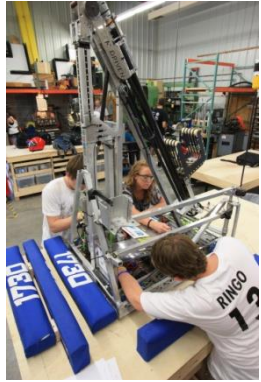




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Students must be ready to enter university or industry at a competitive level.





Creating environments that meet the needs of all students:

- Economics
- Cultural Identity
- Globalization
- Aesthetic Experience
- Thinking Laterally





Engaged students who learn valuable skills go on to be productive adults.

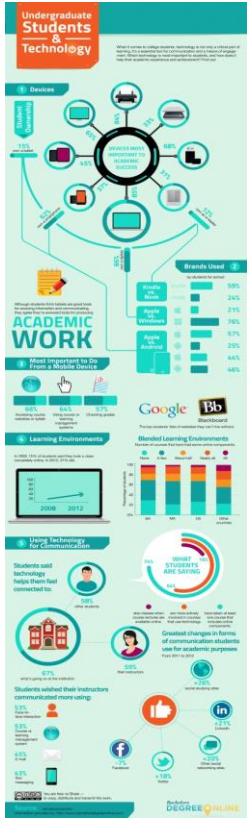




Digital Natives:

- Flipping Classrooms
- Technology
- Less Lecture
- More Interaction
- Faculty becomes the coach



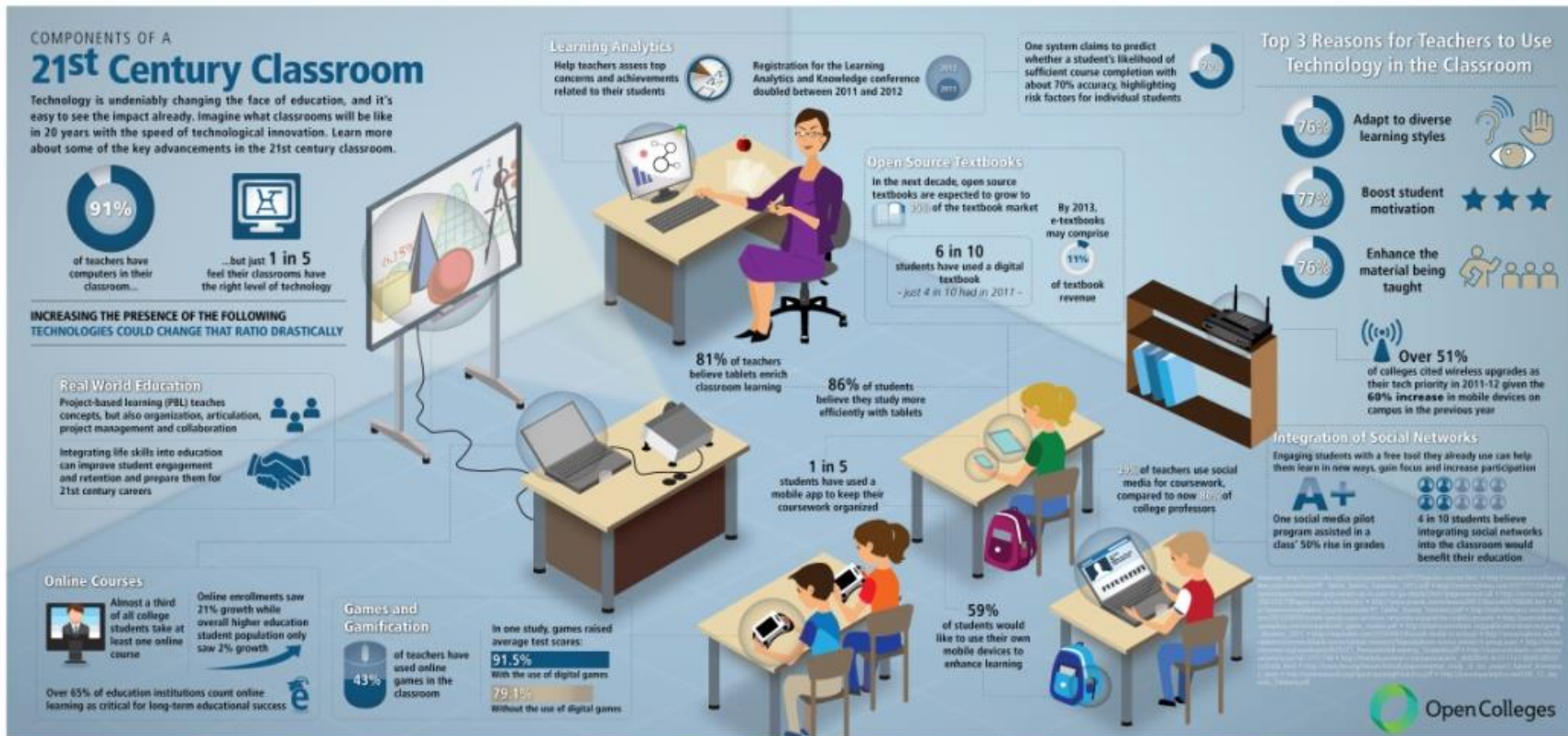


Technology Integration:

- Plugged in - Not Tuned Out
- Personal Devices
- BYOD / BYOT(ech)



facilities + technology integration



<http://www.k12educationtechnology.com/2012/07/23/91-teachers-computer-access-infographic/>



Technology is used for:

- Testing / Grading
- Course Material
- Communication

Devices for Academic Success:

- Tables
- Smartphones
- Laptops
- E-Readers



Architects + Specialists working together to provide technology based solutions for:

- Classrooms
- Auditoriums
- Learning Labs and more



HD Capture

Video recording for classroom and lecture halls



CAPTURE
LIVE HD™

CaptureLiveHD™, the only complete HD lecture capture solution

- >> Captures full-motion HD video
- >> Simple to setup and use by presenters
- >> Provides ability to stream lectures
- >> Lowest cost of ownership of any product in its category
- >> Picture-in-picture feature provides ability to view presentation and presenter

Capture the Experience for Yourself

With the lowest cost of ownership for any capture solution, and with no on-going maintenance costs, CaptureLiveHD records lectures and meetings in flawless HD video and audio. You can then easily upload lectures to your network server for online delivery. No special training or extra effort is required.

Designed for simple out-of-the-box setup in a classroom, CaptureLiveHD simply integrates with existing AV presentation systems and networks. Capturing content from the lecture hall, training lab, or boardroom, presenters and instructors can easily capture and distribute content... from the push of a button.

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audio



video



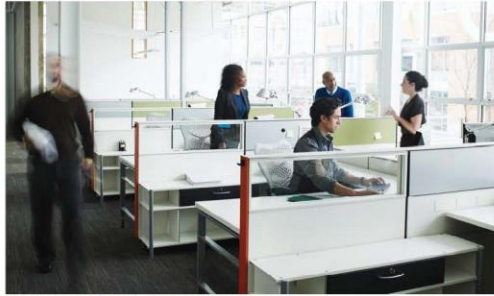
lighting



WHO USES SOUND MASKING?

INDUSTRIES

- Finance (GLBA)
- Healthcare (HIPAA and HCAP-PS)
- Insurance
- Legal
- Government
- Education (FERPA)
- Consulting
- House of worship



APPLICATIONS

- Open office environments
- Private offices
- Call centers
- Executive/HR offices
- Counseling offices
- Waiting rooms
- Patient rooms
- Libraries
- Secured facilities

Sound Masking Product
Increases speech intelligibility and articulation



audio



video



lighting





For Facilities To Succeed with Technology:

- It has to work and work well on several levels
- Must be a balance of what the student expects in a cyber world and be accessible to faculty who are not always digital natives.



learning objectives:

1. Learn how space needs to facilitate collaboration inside the walls by redesigning the classroom to eliminate the traditional forward facing lecture model.
2. Understand how interaction is taking on new forms with the introduction of technology. Interaction between peers, professionals and resources of all types is facilitated by getting students, and keeping students, plugged in.
3. Understand that environments must be adaptable in order to incorporate specific requirements from students, faculty and curriculum.
4. Learn that in order for facilities to succeed with the integration of technology, it has to work, and work well on several levels. A delicate balance between what the students are expecting as they grow up in an ever increasing cyber world, while being accessible to faculty that are just coming up to speed and trying to keep up.

AIA CEU Course 2013



This concludes The American Institute of Architects Continuing Education Systems Course

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Thank You!

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