Collaborative Learning Classrooms
Hello
My name is: Brian
Cooperative Learning Classroom

Team Based Learning Classroom

Collaborative Learning Classroom

Active Learning Classroom

Alternative Learning Classroom

SCALE-UP: Student Centered Active Learning Environment with Upside-down Pedagogies
What is collaborative learning?

Collaborative learning is based on the view that knowledge is a social construct. Collaborative activities are most often based on four principles:

- The learner or student is the primary focus of instruction.
- Interaction and "doing" are of primary importance.
- Working in groups is an important mode of learning.
- Structured approaches to developing solutions to real-world problems should be incorporated into learning.

Source: Cornell University [http://www.cte.cornell.edu/teaching-ideas/engaging-students/collaborative-learning.html](http://www.cte.cornell.edu/teaching-ideas/engaging-students/collaborative-learning.html)
What is the impact of collaborative learning or group work?

- Development of higher-level thinking, oral communication, self-management, and leadership skills.
- Promotion of student-faculty interaction.
- Increase in student retention, self-esteem, and responsibility.
- Exposure to and an increase in understanding of diverse perspectives.
- Preparation for real life social and employment situations.

Source: Cornell University http://www.cte.cornell.edu/teaching-ideas/engaging-students/collaborative-learning.html
Brief History

- North Carolina State University - SCALE-Up (Student Centered Active Learning Environment with Upside-down Pedagogies)
- MIT (John Belcher/Peter Dourmaskin/David Lister) - TEAL (Technology Enhanced Active Learning) for Freshman Physics
  - Interactive engagement pedagogy - 9 students/table, 3 students/team
  - Smart technology use - 13 Whiteboards, 8 Projectors
  - New classroom design - Teacher’s Station in Center • $1.5M/room

Sources: University of Minnesota http://www1.umn.edu/ohr/teachlearn/alc/history/index.html
Massachusetts Institute of Technology http://web.mit.edu/edtech/casestudies/teal.html
Technology Enabled Active Learning at MIT

Source: Massachusetts Institute of Technology http://web.mit.edu/edtech/casestudies/teal.html
What does a CLC look like?

• No traditional focal point
• Student seating configuration that promotes group collaboration
• Technology resources available for students to share content
• Technology controls to allow faculty to encourage collaboration as well as maintain order
Why should I teach in a CLC?

Source: McGill University (https://www.youtube.com/watch?v=xFLDad64j8M&hd=1)
What active learning techniques do you employ in your classroom?
Who has taught in a room designed for this type of collaboration?
What are the challenges of teaching in a CLC?

- The classroom frequently does not have a traditional “front” or focal point.

- Some students, including those with certain disabilities, may find the increased collaboration distracting.

- Faculty members must be comfortable using the expanded technology resources.

Source: University of Minnesota (http://www1.umn.edu/ohr/teachlearn/alc/index.html)
What are the challenges of building a CLC room?

- Space - Requires more square footage than a traditional classroom.

- Fixed Tables - Integrated technology makes moving the furniture impossible.

- Cost - Higher cost to construct and maintain.
Why is this important?

A CLC room has resources that when used properly can provide a unique and extraordinarily beneficial student learning experience.

When used improperly, a CLC is at best no better than a traditional classroom and at worst, can be a serious distraction from learning.
Collaborative Learning Classrooms (CLC) at Suffolk University

What are the characteristics of a CLC at Suffolk?
• The first CLC classrooms on Suffolk’s Campus will debut when 20 Somerset Street opens.
• Three rooms with occupancy as follows:
  • Room 114 - 60 seats (10 tables with 6 students per table, 7 projectors)
  • Room 214 - 42 seats (7 tables with 6 students per table, 6 projectors)
  • Room 314 - 42 seats (7 tables with 6 students per table, 6 projectors)
• Distributed whiteboard space
• Blu-Ray Player
• Desktop Computer at Teaching Station
• At each student table
  • Video connection (HDMI/VGA) for 1 student provided laptop computer
  • Wired ethernet connection
  • Power receptacle
• Wireless lavaliere microphone for faculty member
• Touch-panel based integrated media control system
Collaborative Learning Classrooms in the New Academic Building at 20 Somerset Street

The three Collaborative Learning Classrooms (CLC) in 20 Somerset Street provide a student-centered, technology-rich learning space. These CLC rooms, a first on Suffolk's campus, provide many desirable features including: round tables seating 6 students per table, a seating style that promotes discussion, peer/instructor review and coaching, multiple projection systems to allow students working in groups to see and showcase their work and a teaching station that allows for control of all student projection systems from one location.

CLC rooms, when utilized in line with appropriate pedagogical best practices have been shown to increase student interaction and engagement, increase normalized learning gains and produce higher student satisfaction.

For more information about CLC rooms, please contact:
For pedagogy: CTSE@suffolk.edu
For technology: servicedesk@suffolk.edu
To request CLC for future classes: sections@suffolk.edu
Collaborative Learning Classrooms (CLC) are designed to facilitate student-centered learning activities that directly engage students in the learning process. This collaborative learning space can be used to develop problem-solving skills, accommodate team projects, and increase student participation. The CLC learning environment encourages learning through peer instruction and active learning, and its design encourages interaction among students and the inclusion of all student voices. To learn how to adapt your pedagogy to these new learning spaces, please contact the Center for Teaching and Scholarly Excellence (CTSE).

Features of the new CLC Rooms

- Classroom 114 has 10 student tables with 6 seats per table and 7 high-definition projectors
- Classroom 214 has 7 student tables with 6 seats per table and 6 high-definition projectors
- Classroom 314 has 7 student tables with 6 seats per table and 6 high-definition projectors

All of these rooms include:
- Each student table is equipped with electrical, data and video projection connectivity for one student laptop allowing one computer per table to be projected on any one, all or a combination of the projectors
- A teaching station with a simple, intuitive, touch-panel based control of all classroom technology including all of the projection systems
- A desktop computer at the teaching station
- A connection to the projection system for the faculty member’s own laptop computer
- A Blu-ray player
- Sound reinforcement for both the media sources as well as the faculty member’s voice via a wireless lavaliere (clip-on) microphone allowing hands-free, amplified speech
Room 114 - 60 Seats
Room 214/314 - 42 Seats
Learn how to use the technology...BEFORE...the first class.
Training

When: Last week of August and throughout September

Where: In the CLC Classrooms at 20 Somerset Street

Who should participate?: Anyone who will be teaching or is interested in teaching in a CLC environment.

What: Each training session will include a hands-on tutorial on the use of all of the technology features of the CLC rooms. This will include learning to use multiple video sources simultaneously, selecting appropriate audio when using many video sources, controlling all of the other integrated features of the room and what to do when you have a problem!

Why: Successful teaching and learning in a CLC environment is dependent upon your ability to use the technology to enhance the environment.

How: Each session will be facilitated by a senior member of the UMS team and co-facilitated by a member of the CTSE and will be open to no more than 4 faculty members per session to ensure that everyone has an opportunity to gain intimate knowledge and practice.

How do I sign up? Watch for an email invitation later this Summer!
Just in Time Support

RES NOVA is paging the media center.
A UMS staff member will assist you shortly.

Thank you,
UMS
Even more resources...

If you are traveling this Summer and happen to find yourself in Minnesota…

NATIONAL FORUM ON ACTIVE LEARNING CLASSROOMS
3rd Biennial National Forum on Active Learning Classrooms

August 5-7, 2015

Robert H. Bruininks Hall
University of Minnesota
222 Pleasant Street S.E.
Minneapolis, MN 55455

Registration:
http://cceeevents.umn.edu/national-forum-on-active-learning-classrooms