

Transitioning Co-requisite Math Courses to the Online Environment

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Please enter the following information in the chat box:

- Where you teach (institution)
- What you teach (subject)
- How you heard about this forum

— Equity — Access — Excellence —

Objectives

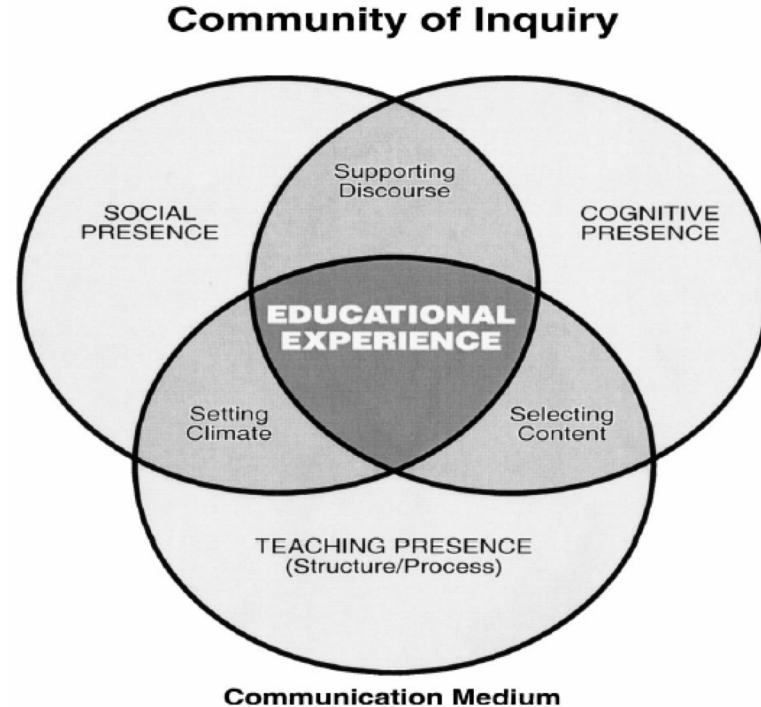
- Address challenges to teaching and learning in the online environment
- Explore the Community of Inquiry model and factors of online student connectedness
- Explore strategies to decrease students' feelings of isolation
- Explore strategies to assess student learning
- Explore strategies to assist students in time management in the online environment
- Share ideas among participants

Keep in Mind...

Learning online can increase students' feelings of isolation especially when the transition has been abrupt

- Be supportive and flexible
- Reach students where they are - synchronously and/or asynchronously
- Provide support
- Keep it simple

Community of Inquiry Model (Garrison, Anderson, Archer, 2000)



Factors of Online Student Connectedness (Bolliger & Inan, 2012)

- Comfort
- Community and Social Presence
- Instructor Facilitation
- Interaction and Collaboration

Strategies to Decrease Students' Feelings of Isolation

- **Make navigation easy**
 - Group material into “chunks”
 - If possible, hide extra tabs in the course learning management system (LMS)
 - Demonstrate where to locate course materials
- **Present material in “chunks”**
 - Record short videos and then meet as a class at least once a week to answer questions and work additional problems
- **Provide multiple avenues to contact the instructor**
 - Utilize messaging apps and notification tools in the LMS

Strategies to Decrease Students' Feelings of Isolation

- Provide opportunities for discussion
 - Create a “Virtual Cafe” space
 - Create an “Ask Questions” space
 - Use discussion forums or other collaborative tools to share time management and other study skill strategies
- Assign “support groups” to meet once a week
 - Encourage video

Strategies to Decrease Students' Feelings of Isolation

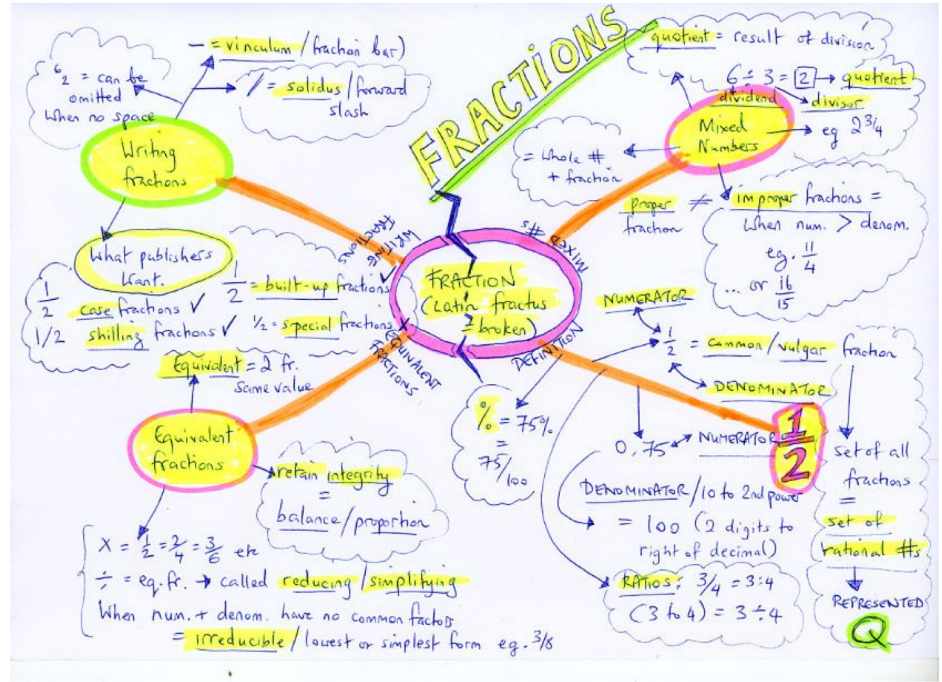
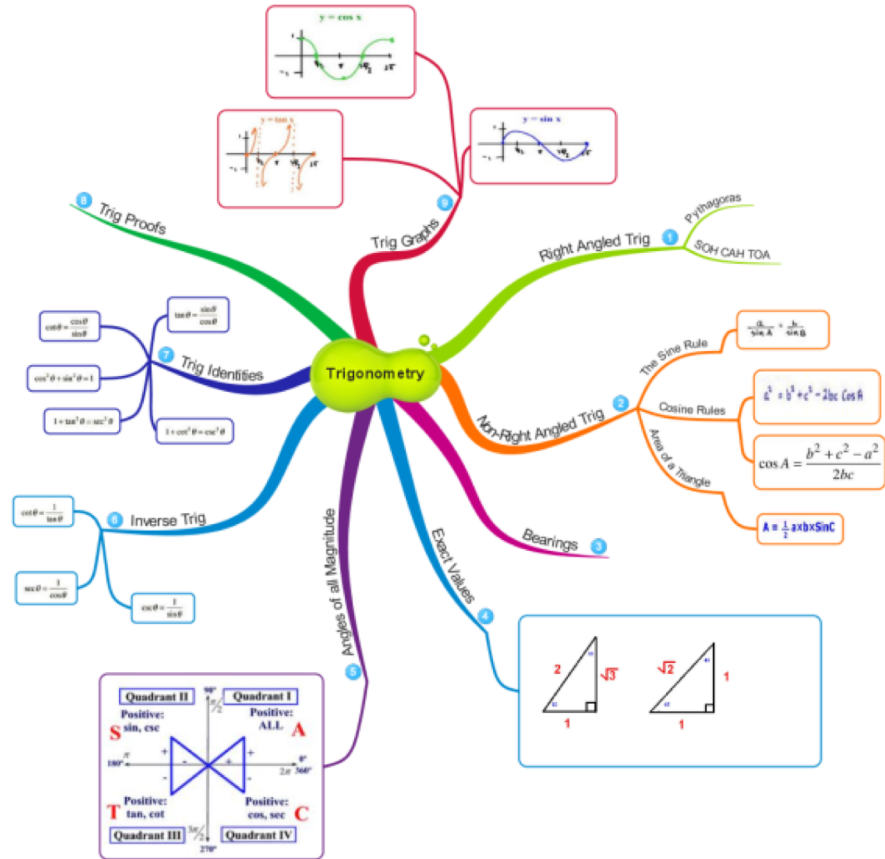
Share in the chat box:

Name one strategy, not already mentioned, that has worked well in transitioning online this semester for your co-requisite class.

Strategies to Assess Student Learning

- The goal of assessment is for students to display their knowledge and retention of the material
 - But we also want to measure engagement in our co-requisite classes
- Help students feel comfortable with assignment submission
 - Create “low stakes” assignments for student to practice the submission process.
- Mind Maps
 - Gives the instructor the opportunity to see what content the student understands and where the student may be struggling.

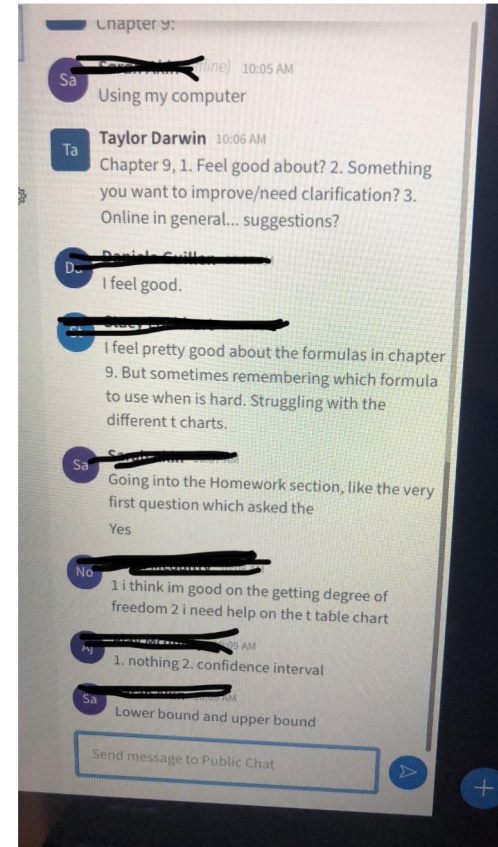
Strategies to Assess Student Learning



<https://www.biggerplate.com/education-mindmaps/36/mathematics>

Strategies to Assess Student Learning

- An example of assessing co-requisite students virtually
 - Audio/video capabilities
 - Able to gauge where each student feels they have strengths/weaknesses for the chapter
 - Able to build groups for the week based on responses



Strategies to Assess Student Learning

Share in the chat box:

Name one assessment strategy, not already mentioned, that has worked well in transitioning online this semester for your co-requisite class.

Strategies to Address Time Management

- Instructor should have a minimum response time
 - Will help create a sense of structure for the students
- Set up your LMS to display due dates several different ways
 - Calendar
 - Weekly “to do” lists
 - Tentative Schedule
- Group Work
 - Creates accountability within the group
- Break Assignments into smaller chunks

Strategies to Address Time Management

Share in the chat box:

Name one time management strategy, not already mentioned, that has worked well in transitioning online this semester for your co-requisite class.

Tools

Technology tools to assist in transitioning your course online:

- Annotations/Screen Capture Applications
 - Screencast-O-Matic
 - Record It!
 - Komoto
- Document Camera
 - iPevo
- Scanner Applications
 - Genius Scan
 - Cam Scanner
- Google Applications
 - Google Voice
 - Google Hangouts

Discussion Questions:

- Anything not addressed that you want to add?
- Any helpful resources or advice you would like to share?
- Any additional questions?

Resources and References

- Bolliger, D. U., & Inan, F. A. (2012). Development and validation of the online student connectedness survey (OSCS). *The International Review of Research in Open and Distance Learning*, 13(3), 41-65.
- Chronicle of Higher Ed. (2020) Moving online now. Retrieved from https://connect.chronicle.com/rs/931-EKA-218/images/CoronaVirus_ArticlesCollection.pdf
- Garrison, D. R., Anderson, T., & Archer, W. (2000). Critical inquiry in a text-based environment: Computer conferencing in higher education. *The Internet and Higher Education*, 2(2-3), 87-105.

Resources

- Dana Center Blogs:
 - <https://www.utdanacenter.org/blog/dana-center-launches-new-transitioning-mathematics-courses-virtual-teaching-webinars>
 - <https://www.utdanacenter.org/blog/making-switch-virtual-learning>
 - <https://www.utdanacenter.org/blog/shifting-virtual-teaching-higher-ed-mathematics-part-1>

Resources

- The Dana Center is compiling resources here:
<https://tinyurl.com/Teaching-Online-Resources>
- Transitioning to Remote Instruction Forums: April 9, April 16, 1pm (Pacific) <https://utdanacenter.zoom.us/j/402089993>
- “How to Zoom” office hours: April 15, 11am (Pacific)
<https://utdanacenter.zoom.us/j/937538377>
- Transitioning Co-requisite Courses to the Online Environment Forum: April 8, 1pm (Pacific)
<https://utdanacenter.zoom.us/j/229888049>

To Learn More...

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