STUDENT ENGAGEMENT AND
ACTIVE LEARNING STRATEGIES
Goal

By the end of this session, you will have:

✓ Developed some ideas for active engagement in your classroom
✓ Planned the use of two collaboration tools in your classroom
Active Learning with the Flip

- What is Active Learning?
- Anything that students are doing in the classroom beyond passive listening; instructional method that engages students in the learning process
  - Listening practices
  - Short writing/problem-solving exercises
  - Complex group problem-solving
- What are some strategies that you are currently using?
Engaging Students in the Flipped Classroom

- Why the Flip?
- Flipped allows faculty to be more thoughtful/strategic in course delivery and active learning.
- Allows for faculty to engage students in higher levels of Bloom’s taxonomy (e.g., integration, synthesis).
- Flipped learning allows faculty to be more student-centric and to use more active learning strategies (and direct interaction to enhance engagement).
Engaging Students in the Flipped Classroom

Core Considerations

- Inputs (demographics, previous experiences)
- Student’s current environments (college experiences)
- Outcomes (student characteristics, knowledge, attitudes, beliefs, values)
- How can these concepts affect the students’ engagement in the classroom?
Engaging Students in the Flipped Classroom

- **Four areas to think about when developing activities:**
  - **Physical engagement:** efforts and energy invested
  - **Cognitive engagement in class:** focus on discussion, attention, concentration
  - **Cognitive engagement out of class:** studying course material, absorbed by out of class activities
  - **Emotional engagement:** excitement, pride in work, interest in course material
Engaging Students in the Flipped Classroom

- What strategies can be used?
  - Physical engagement:

- Cognitive engagement in class:

- Cognitive engagement out of class:

- Emotional engagement:
Active Learning Strategies

- Individual Student Activities:
  - One/five minute problem- pose a question and ask students to solve.
  - Muddiest point- what was challenging from reading/out-of-class materials
  - Reading/Clicker quiz- get feedback on student’s understanding of material
  - Write a test question- students get actively involved in thinking about more complex problems
  - Fishbowl- use notecards to give you ideas about muddiest point and then start next class with those challenges
Active Learning with the Flip

Group Activities:

- Notes comparison/sharing - students actively compare notes and fill in gaps of understanding
- Work at the board - students physically get up and move, shared problem-solving
- Gallery walk - teams share ideas and respond to meaningful questions, problem-solving situations or texts
- Jigsaw - each member of a group is asked to complete some discrete part of an assignment; when every member has completed his assigned task, the pieces can be joined together to form a finished project
Learning Objectives and Active Learning with the Flip

- Choose one basic learning objective and one advanced learning objective from the morning session
  - **Basic**: Individual space activities- What activity best aligns with meeting this objective? Is it active? If not, how can it be transformed?
  - **Advanced**: Group space activities- What activity best aligns with meeting this objective? Is it active? If not, how can it be transformed?
  - Share and critique...
Active Learning Tools

- Simple tools to help with active learning and engagement:
  - LMS
  - Moodle Wikis
  - REEF iClickers, Choices, or Poll Everywhere/Top Hat
  - Chats, Google hangouts - for conferencing with groups
  - Google docs - for creating shared documents when there is no whiteboard
  - Google forms - used for assessment of understanding
Active Learning Tools

- Advanced tools to help with active learning:
  - **Piazza**: online problem-solving place where students can ask, answer, and explore questions under the guidance of their instructors (mix between wiki and forum), includes LaTeX (equation editor)
  - **Slack**: digital workspace, rich messaging system
  - **Voice Thread**: collaborative tool, holds images, documents, and videos and allows people to navigate slides and leave comments in 5 ways - using voice, text, audio file, or video
  - **Padlet**: online bulletin board with collaborative access (share links, ideas)
  - **EverNote/OneNote**: interactive notetaking tools, allows for students to organize their notes, searchable
Active Learning Tools

- Explore some tools!
  - Top 100 Tools for Education:
    - http://c4lpt.co.uk/top100tools/top100-edu/
  - Pick two and think about how you would use them in your class.

- Appendix in Talbert’s Book
  - Recommendations for the Flipped Classroom
Why work on Student Engagement?

Student Outcomes:
- Good predictor of student learning and development
- Documented and significant relationship with learning outcomes
- Long-term impacts of student engagement in career satisfaction, earnings

Faculty Outcomes:
- Why should we focus energy on this topic?
Final Thoughts…

- Does flipping and active learning reach all students?
- What are some obstacles for active learning in the Flipped approach?
- Pair-Strategize:
  - How would you address these obstacles to increase student engagement?
  - Strategies/Tools – Using technology always the best?