

What is a Flipped Classroom?

In a flipped classroom, the typical lecture and homework elements of a course are reversed. Students view lectures before coming to class, and actively work during class.

- Instruction is learner-centered
- Interaction and active participation are critical
- Students develop their skill at working in groups
- Instructors coach students to develop solutions to real-world problems

How Can I Flip My Course?

Steps to Complete Before Flipping a Course

- 1. Define course goals.
- 2. Write measurable, specific student learning objectives (SLOs).
- 3. Outline assignments and assessments that align with SLOs.
- 4. Group course into modules or units of content.
- 5. Determine a grading structure for the course.
- 6. Outline number/type of lectures to record.

Recording Lectures for a Flipped Course

- 1. Select location to host lecture content online (via website or through an LMS).
- 2. Select a recording style, create lecture materials, and record.
- 3. Supplement with existing videos and other online content.

Creating In-Class Content for a Flipped Course

- 1. Select format/method for each activity/assignment.
- 2. Determine assessment method for each activity/assignment.
- 3. Select structure(s) for class periods.
- 4. Make a plan for grouping students.

At the Beginning of the Semester

- 1. Explain structure and set expectations for the course.
- 2. Create student groups in class.
- 3. Use an ice-breaker/practice activity to familiarize groups with structure, and each other.
- 4. Reinforce expectations regularly.

Benefits

- Active learning has been shown to increase student performance.
- Peer instructed students show longer retention.
- Class time focuses on higher-order thinking, individual assessments, peer evaluation, consensus building, and problem-based learning.

Not ready to flip an entire course?

Try flipping a particular unit or lesson that involves active learning.

Limited resources?

If you have limited resources, try audio narration over PowerPoint slides. Include a script, and focus on accessibility.

Common Flipped Classroom Activities

- In-class discussions
- Low stakes, quick response, clicker questions
- Review/reinforce new vocab or foundation ideas
- Small-group problem solving
- Peer review
- Brainstorming
- Graphic organizers/models
- Student presentations
- Lab activities and demos
- Frequent formative assessments

Allyson Haskell, Patrizia Busato, Remigio Berruto, Fedro Zazueta. *Contact information on reverse.*

UF Information Technology

•••••••••••••• 🕞 Flipped Classroom Guide•••••

Resources

- Center for Instructional Technology & Training, UFIT.
 - o Aligning Assignments to Student Learning Outcomes:
 - http://citt.ufl.edu/online-teaching-resources/assessments/aligning-assessments-to-slos/
 - Active Learning in Online Courses:
 - http://citt.ufl.edu/online-teaching-resources/activelearning/
 - Accessibility in the Online Classroom:
 - http://citt.ufl.edu/tools/accessibility-in-the-online-classroom/
 - Common Recording Tools:
 - http://citt.ufl.edu/tool-type/recording/
- Quick Start Guide: Flipped Classroom. The University of Texas at Austin Faculty Innovation Center, available at:
 - o https://facultyinnovate.utexas.edu/sites/default/files/utflipquickstartguide120516.pdf
 - How to record a slide show with narration and slide timings in PowerPoint, available at:
 - https://support.office.com/en-us/article/Record-a-slide-show-with-narration-and-slide-timings-0b9502c6-5f6c-40ae-b1e7-e47d8741161c#OfficeVersion=2013,_2016
- How to turn your presentation into a video in PowerPoint, available at:
 - https://support.office.com/en-us/article/Turn-your-presentation-into-a-video-c140551f-cb37-4818-b5d4-3e30815c3e83

References

Collaborative Learning: Group Work. Cornell University Center for Teaching Excellence, available at: https://www.cte.cornell.edu/teaching-ideas/engaging-students/collaborative-learning.html

- Busato, P. et al. (2016). Student performance in conventional and flipped classroom learning environments. Applied Engineering in Agriculture. Vol 32(5) pp. 1-10.
- Busato, P. et al. (2015). Online teaching and active learning: Flipping the classroom. Office of Academic Technology, UFIT. University of Florida.
- Freeman, S., et al. (2013). Active learning increases student performance in science, engineering, and mathematics. Proceedings of the National Academy of Sciences of the United States of America. 111(23), 8410-8415. Available at: http://www.pnas.org/content/111/23/8410.abstract

Lambert, C. (2012). Twilight of the lecture, *Harvard Magazine*. Available at: http://harvardmagazine.com/2012/03/twilight-of-the-lecture

Contact

Allyson Haskell, ahaskell@ufl.edu, Center for Instructional Technology & Training, University of Florida Patrizia Busato, patrizia.busato@unito.it, Department of Agriculture, Forest, and Food Sciences (DISAFA),

University of Turin

Remigio Berruto, remigio.berruto@unito.it, Department of Agriculture, Forest, and Food Sciences (DISAFA), University of Turin

Fedro Zazueta, fsz@ufl.edu, Department of Agricultural and Biological Engineering, University of Florida