

## Hybrid, online, and flipped classes: ideas for teaching with technology

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EARLY CAREER WORKSHOP FOR GEOSCIENCE FACULTY

### Definitions

- **Synchronous learning** – “live” activities with instructor and all students
- **Asynchronous learning** – activities completed on students own time
- **Flipped class** – asynchronous lectures, active learning during class time
- **Hybrid class** – blend of online and face-to-face teaching and learning

### Session goals

- Identify the benefits and challenges of online teaching
- Consider some communication and management strategies for your class
- Share ideas for active learning in an online environment

### Some benefits of online teaching and learning

- Flexibility and convenience
- Accessibility
- Opportunities created by formalized asynchronous learning
- Higher enrollment and student satisfaction

*#1. Sharing time - how would your students and you benefit from online teaching and learning?*

### Some challenges of online teaching and learning

- Preparation and management time
- Creative strategies for teaching, engagement, and assessment
- Structuring class and communicating expectations to students
- Managing communication
- Student buy-in

*#2. More sharing - what specific challenge(s) do you anticipate for your online, flipped, or hybrid class?*

### Considerations and strategies

Key considerations:

1. Effective online teaching must include the same learning outcomes and expectations as an in-person class.
2. Online teaching does NOT reduce your contact time with students; it just moves it from face-to-face to an online environment.

## Considerations and strategies

- **Assess your pedagogical readiness. Are you willing to:**
  - Use a variety of teaching techniques to engage students
  - Recognize the differences between in-person and online teaching
  - Include active learning and formative assessment in an online environment
  - Manage asynchronous and synchronous learning activities
  - Create a fully accessible course

**#3. List 2-3 specific differences between your online and in-person teaching.**

## Considerations and strategies

- **Communication plan (for online and hybrid classes)**
  - Protocols for sharing course content, providing feedback, online interactions
  - Should be clearly described in the syllabus
  - Reiterate the plan early and implement it consistently
  - Include protocols for synchronous and asynchronous activities

## Considerations and strategies

- **Communication plan should answer the following questions**
  - How should students contact you?
  - When and how can students expect a response to their inquiries?
  - What type of feedback will students receive?
  - How will announcements/reminders be communicated?
  - How will you facilitate student-student interactions?

**#4. Write down a basic communication strategy for your class.**

## Include in the syllabus a "map to success" (example from BL's hybrid class)

**Your map to success in this class.** Use the following guidelines to help you succeed in the class:

1. **Check your NDSU.EDU email every day.** All communications from the instructor (e.g., announcements, deadline reminders) will be sent to this email address.
2. **Merge assignment deadlines with your calendar.** All reading, in-class, and lab assignments are posted in the course schedule. Deadlines for these are fixed; add them to your calendar/planner to help you keep track of them.
3. **Read instructor feedback on assignments, even if you did well.** Written feedback from the instructor and correct answers to assignments will be provided in Top Hat within 7 days of the assignment deadline. Feedback helps you review material and self-evaluate, both of which help you learn more efficiently.

## Include in the syllabus a "map to success" (example from BL's hybrid class)

**Your map to success in this class.** Use the following guidelines to help you succeed in the class:

4. **Keep up with assignments.** This class requires 30-60 minutes per day of work outside of class meetings. Keep track of deadlines, correspond with the instructor via email, and keep in touch with your group to help you submit your work on time. Falling behind will quickly diminish your chances of success in the class.
5. **Come to class.** Procedures for lab assignments, class-wide discussions, and review of assignments will take place in class. These things are not possible to replicate online and are key to synthesizing course content. Attending class is key to your success in class.
6. **Take advantage of your lab group.** Working together on in-class activities and lab assignments are the best learning opportunities in the class. Be sure to discuss your answers in advance of submitting them in Top Hat and before class-wide discussions. Doing so will help to maximize your understanding and retention of course content.

## Considerations and strategies

- **Management plan**
  - Set of strategies for handling online communication with and among students
  - Synchronous communication → etiquette is similar to a classroom
  - Asynchronous communication → management issues can arise

## Considerations and strategies

- **Management plan – consider how you may handle the following**

- Inactivity
- Dominant student(s) on discussion board or group project
- Digressions on discussion board or group project
- Common misconceptions displayed on assignments or quizzes
- Inappropriate comments

#5. What communication management issues can you foresee for your class?

## Considerations and strategies

- **Strategy for dealing with some communication problems**

- *Inactivity* – give students credit for participation /asynchronous feedback
- *Dominant student(s)* – start early with "step up" or "step back"
- *Digressions* – set clear expectations and provide feedback frequently
- *Shared misconceptions* – allow students to self-assess and correct their work
- *Inappropriate comments* – set expectations for etiquette and respect

## Active learning and formative assessment

- Example from BL's hybrid class

## Technology examples

- **Slack**
  - Group communications, file sharing, announcements
- **Piazza**
  - Course bulletin board, allows students to answer each other's questions
- **Zoom, Blackboard Ultra**
  - Live presentations, virtual office hours
- **Camtasia**
  - Recording lectures and demonstrations