Effective Teaching and Class Management

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and

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About this session

- **Organization:**
  - Interactive
  - Topics chosen by you
- **Effective teaching**
- **Class management**
- **Wrap up**
- **Q & A**

Effective Teaching: Possible Issues for Discussion

- How to best use class time
  - How to actively engage all
  - How to encourage participation
  - Effective use of technology
- Possible teaching techniques
  - Interesting lectures
  - Group problem solving
  - Think-Pair-Share
  - Flipping the classroom
  - Class discussion
  - Other?

- Considerations for planning
  - Dealing with large classes
  - Matching teaching style to class size and material
  - Teaching students with special needs
- Teaching evaluations
  - Responding to feedback
  - What to do about low evals
- Others topics?

Class Management: Possible Issues for Discussion

- Syllabus
  - How to plan topics and pace
  - How to distribute workload among HW, quizzes, etc
- Discussion
  - How to incorporate discussion
  - How to manage so all students participate comparably
- Team Projects
  - How to set up teams?
  - How to manage teams?

- Grading
  - How to grade efficiently
  - How to work with TAs
  - Dealing with complaints
- Student Preparation
  - How to work with students with different prior experience
  - How to understand and respond to student needs
- Other topics?

Burning questions

- How to engage all students
- Differing student backgrounds, how to pitch level
- How to make theory courses more popular with students
- Recorded lectures can lead to low attendance
- How to promote collaboration in the classroom
- How to get students to think more deeply about topics in class
- How can I best share what I learn with colleagues?
- How to handle student complaints
- How to handle large student enrollments; want all to feel included

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Questions?

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Summary of discussion

- Student engagement, especially in larger classes.
- Student attendance – problem or not?
- Learning student names is worth it.
- How to call on students? Ideas: share in pairs, whiteboard apps

- Large enrollment classes, grading.
- Managerial structure.
- Piazza or course space email address, so instructor doesn't need to process all emails.
- TA training, getting Tas to e.g., how to help students feel comfortable in office hours.

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Summary of discussion

- How to pace course with students possibly falling behind.
- Group projects, peer mentoring with students who took course previously.
- Videos can help support students, eg, giving them a chance to review a proof.
- Cheating is an issue.

- How to encourage students to think more deeply and how to manage student complaints.
- Provide in-class assignments that give students a chance to think and reflect.
- Incrementally give different parts, have students work towards milestones.
- Be explicit about learning objectives.
- Include estimate of how much time assignment will take.
- Give rubrics.
- Midterm course assessment can help.

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