# Active Learning - MIT Examples*

## Introducing Students to Active Learning
- 6.01 Introduction to EECS I
  - [Prof. Freeman explains his course's "practice-theory-practice" approach](#).
- 8.581J Systems Biology
  - [Prof. Gore motivates his use of active learning on the first day of class](#).
- 16.06 Principles of Automatic Control
  - [Prof. Hall describes introducing students to active learning and how they respond](#) (Instructor Insights Interview)

## Examples of Active Learning Activities
- 5.111SC Principles of Chemical Science
  - [Prof. Drennan uses electronic clickers to do an in-class concept question](#).
- 5.95J Teaching College-Level Science and Engineering
  - Lightning Round ([Interview](#) & [Classroom Video](#))
  - Think-Pair-Share ([Interview](#) & [Classroom Video](#))
  - Debate ([Interview](#) & [Classroom Video](#))
  - Jigsaw ([Interview](#) & [Classroom Video](#))
  - Mud Cards ([Instructor Insights Interview](#))
- 6.01 Introduction to EECS I
  - [Prof. Freeman has students vote on a multiple choice concept question by holding up fingers](#).
- 6.033 Computer System Engineering
  - [Computer system engineering recitation where students act out an algorithm](#)
- 8.581J Systems Biology
  - [Prof. Gore uses voting cards to do an in-class multiple choice concept question](#) with follow-up discussion between students.
- [A vacancy diffusion demo](#) - using people
- [A math proof heavy class](#) (University of British Columbia).
- [An active lab class](#) (University of British Columbia)

## Students Collaborating to Solve Practice Problems
- 16.06 Principles of Automatic Control
  - [Prof. Hall discusses the benefits of students doing group work on the board during recitation](#) (Instructor Insights Interview)
- 18.05 Introduction to Probability and Statistics
  - [Students work collaboratively on practice problems at whiteboards while instructors circulate](#).

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*With two examples from outside of MIT.