

### Key Features

- Low-Tech Does not require a computer lab.
- Discussion Questions help promote active reading.
- Focus on Problem areas students come to class better prepared, so less lecture is needed on basic concepts and more can be spent on problem areas.

 Collaborative Activities – less time spent lecturing allows students to work together in class on activities and get hands-on practice with problems

### Discussion Questions

- Students prepare answers to questions (as much as possible) before coming to class
- Exposure to the concepts before class reduces lecture time restating definitions and simple formulas.
- Questions can target bullet points, vocabulary, and key procedures.
- More computational topics can introduce easy versions of new problems or review old material needed in the new section.

### Discussion Questions

- In class, questions can operate like guided notes for students.
- Number of questions per day varies by topic, but even a small number is better than skipping. Keep students in the habit.
- Translates easily to web or blended sections as these can be worked on by the class in the discussion board, and is a quick way to get through the material efficiently.

### Collaborative Activities

- Stat 1350 comes with "Lab Activities", a selection of which are recommended to be done in class.
- The reduced lecture time allows for more of these activities to be completed during class time.
- I've added additional ones that focus on problem areas. Some they work on in groups, some we work on as a class, or some combination.
- Graded by targeting specific problems students tend to get wrong to encourage asking questions.
  Students who miss class are graded more carefully.

### Problem Areas

 Additional worked examples and activities focus on commonly missed areas.

### Quizzes

- Focuses on comparing and contrasting related concepts
- Covers problem types commonly missed on exams

### Homework

 Not eliminated, but modest to give students a chance to work problems on their own before quizzes and tests.

• This started out as a Stat 1350 thing, but it works with other classes too. So far I've tried it with

- Math 1030
- Math 1116
- Stat 2470