

# Chem 234 Organic Chemistry II

- Prof. John H Penn – Spring 2012
  - ▣ Cell Phone Number – to be given in class
  - ▣ Email: John.Penn@mail.wvu.edu
  - ▣ Home Page
    - Most easily found by using your favorite search engine. Search for “John Penn WVU” (or click on this link <http://www.as.wvu.edu/~jpenn/>)
  - ▣ Office
    - Office Hours and Available Time for us to get together
      - See the schedule on my home page
    - Appointments
      - Click on the following link [Appointment with Dr Penn](#). Use your gmail calendar ID to make an appointment. Everything else is automated

# Chem 498 – Honors Organic Chem

- Open to Students in Chem 234
- Meets Fridays 1:30 – 3:30 PM in 408 Clark Hall
- Course contents
  - ▣ Topics Discussed in Chem 233-234, but in greater detail
  - ▣ Some additional topics
- Course taught by Dr. Denis MacDowell
- If interested,
  - ▣ Honors Students, please register through STAR
  - ▣ Non-Honors Students, see Prof. Penn or Prof. MacDowell

# Outline: Discussion of Syllabus

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- ❑ **Decision concerning which Classroom Response System (CRS) to use**
- ❑ **Determination of Final Course Letter Grade**
- ❑ **Beginning Discussion of Chapter 15**

# Prof. Penn vs Classroom Response Systems

## □ Teacher Cost/Benefit Ratio

### □ Penn's Analysis

- Too much work for the teacher for too little gain
- Qualitative feedback from students who had used clickers in other classes
  - Cost
  - Perceptions of Educational Benefit

### □ BUT, can CRS be done by texting?

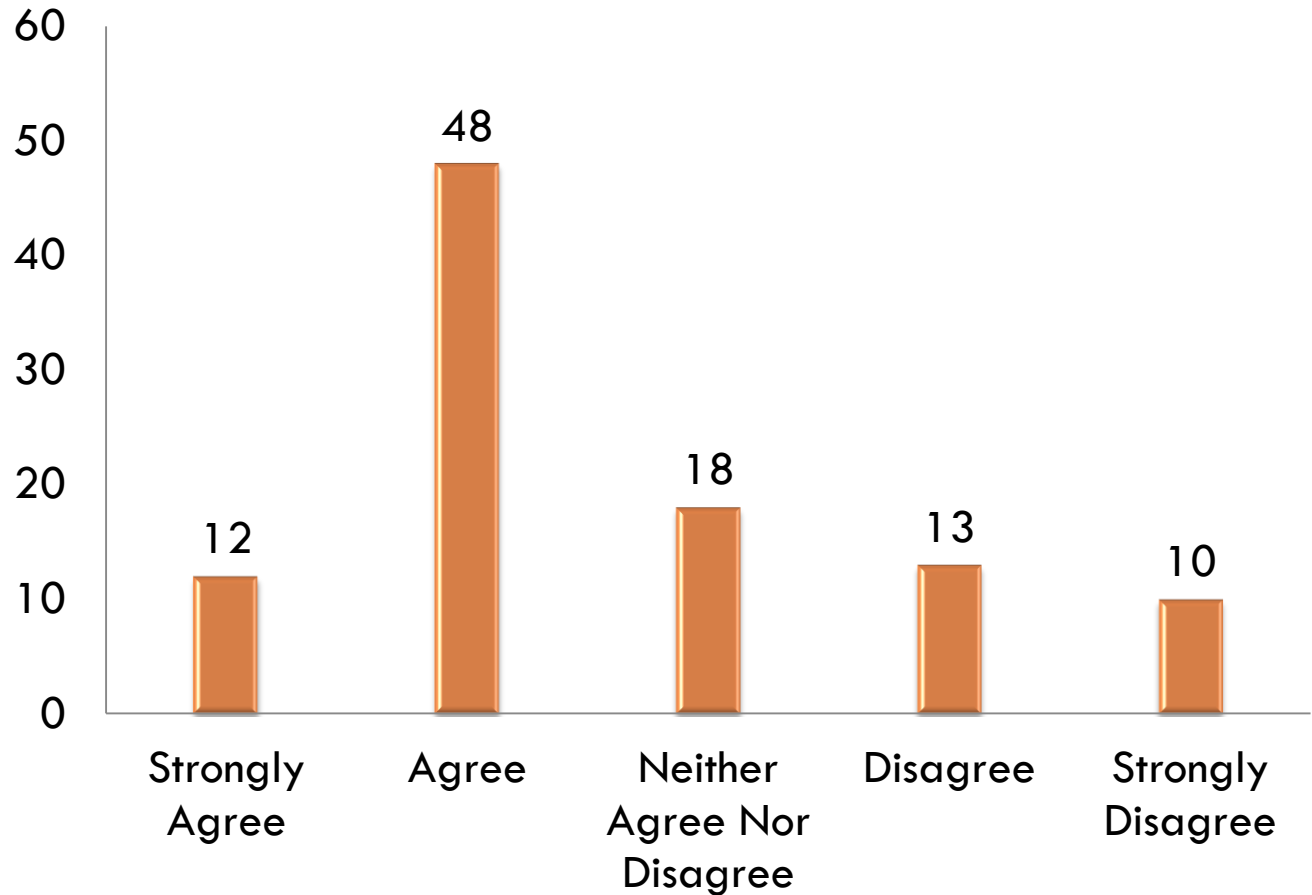
- Pilot Study Report at BCCE 2010, Denton, TX

# Penn's Experiment, Chem 234 Fall 2011

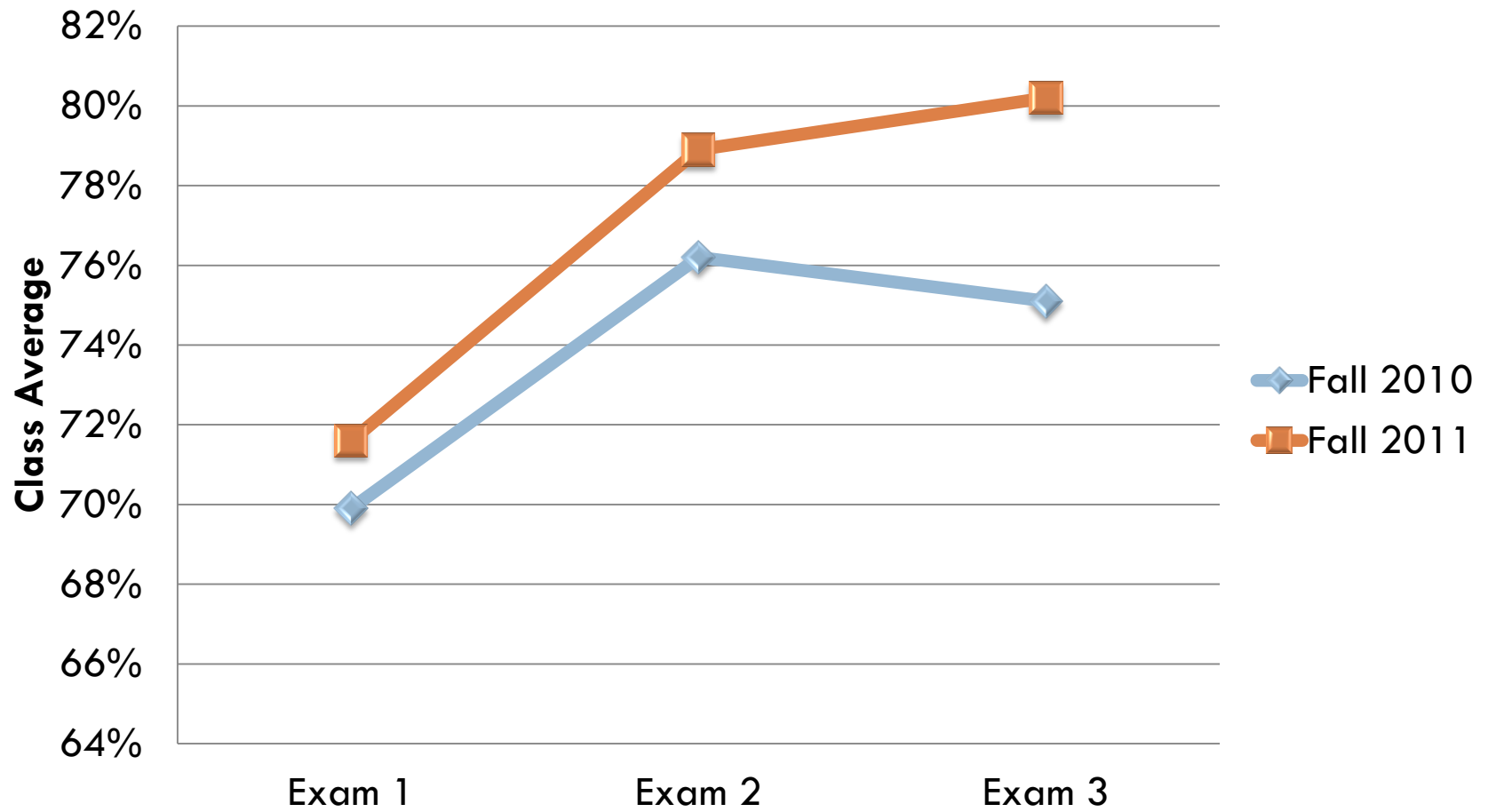
- Experimental Use of Texting for CRS
  - ▣ TopHatMonocle
- Positive Effects From Fall 2011
  - Penn's Observation of Class – Students Followed Along Better
  - Students' Perception of Learning
  - Higher Class Averages
- Negative Effects from Fall 2011
  - ▣ Record keeping
  - ▣ Accommodation Issues

# Students' Perception of Learning

**End of Semester Student Survey Question: "I think that participating in MonocleCAT demos and questions improved my in-class learning."**



# Positive Outcomes for a CRS System: Higher Class Averages on Exams



# Problems Identified in Implementation of the CRS

- Cheating or “beating the system”
- Not enough time for answering questions
- Multiple methods of submitting answers
  - ▣ Record keeping by the Professor Problems

We'll come back to these problems later!  
Right now, we are going to deal with the fact that we will use some sort of CRS.



# Penn's Decision – CRS Will Be Used

- What kind of CRS will be used?
  - ▣ TopHatMonocle – Texting
  - ▣ Clickers – WVU
    - Old WVU Standard
      - Clickers are maintained in the classroom
      - Professor is responsible for the clickers
      - Maintenance Issues
    - New and recently adopted Standard
      - Students Purchase their own clicker (Physics?)
      - Transportable to all classes, but can be used in all classes

# TopHatMonocle – Texting PRS

## □ Advantages

- ▣ The vast majority of students already have a cell phone and text often
- ▣ Students seem to be preoccupied with texting others or answering texts, rather than turning off cell phones during lecture

## □ Disadvantages

- ▣ 10% of students don't text
- ▣ Location of the text origins cannot be restricted, therefore, some students can be at home, receive text messages from classmates, and answer the questions from home (even from their bed (cheating))

# Penn's Estimated Costs for TopHatMonocle

## □ Cell Phone

### ▣ Most students already have one

- If you don't have a cell phone already, then a disposable throw-away cell phone can be purchased for about \$20.00
  - Texting will be an additional charge for these phones (estimated cost from Fall 2011 calculations was about \$20.00 for texting charges through the course of the semester.

### ▣ Most students already have a texting plan

- Special price offered to our class at WVU - \$10.00 for this spring semester for a MonocleCat License

# iClicker2

## □ Advantages

- ▣ Students would be on the front end of the new WVU Standard (dictated by OIT)
- ▣ Location of responses can be restricted to the immediate vicinity of the classroom.

## □ Disadvantages

- ▣ Higher Initial Cost (Estimated \$40.00)
  - Can be used in any class at WVU, since it is the standard
  - Can be shared between students or classes, unless both of you are in this class
- ▣ You are sure to forget to bring your clicker at least once during the semester.
- ▣ Someone else can submit answers via your clicker for you. (cheating)

# Penn's Estimated Costs for iClicker2

## □ iClicker2

- ▣ Bookstore cost ~\$40.00
- ▣ Available through internet sources at a lower cost

## □ Other Costs

- ▣ Penn has to get the receiver unit
- ▣ WVU pays the additional costs

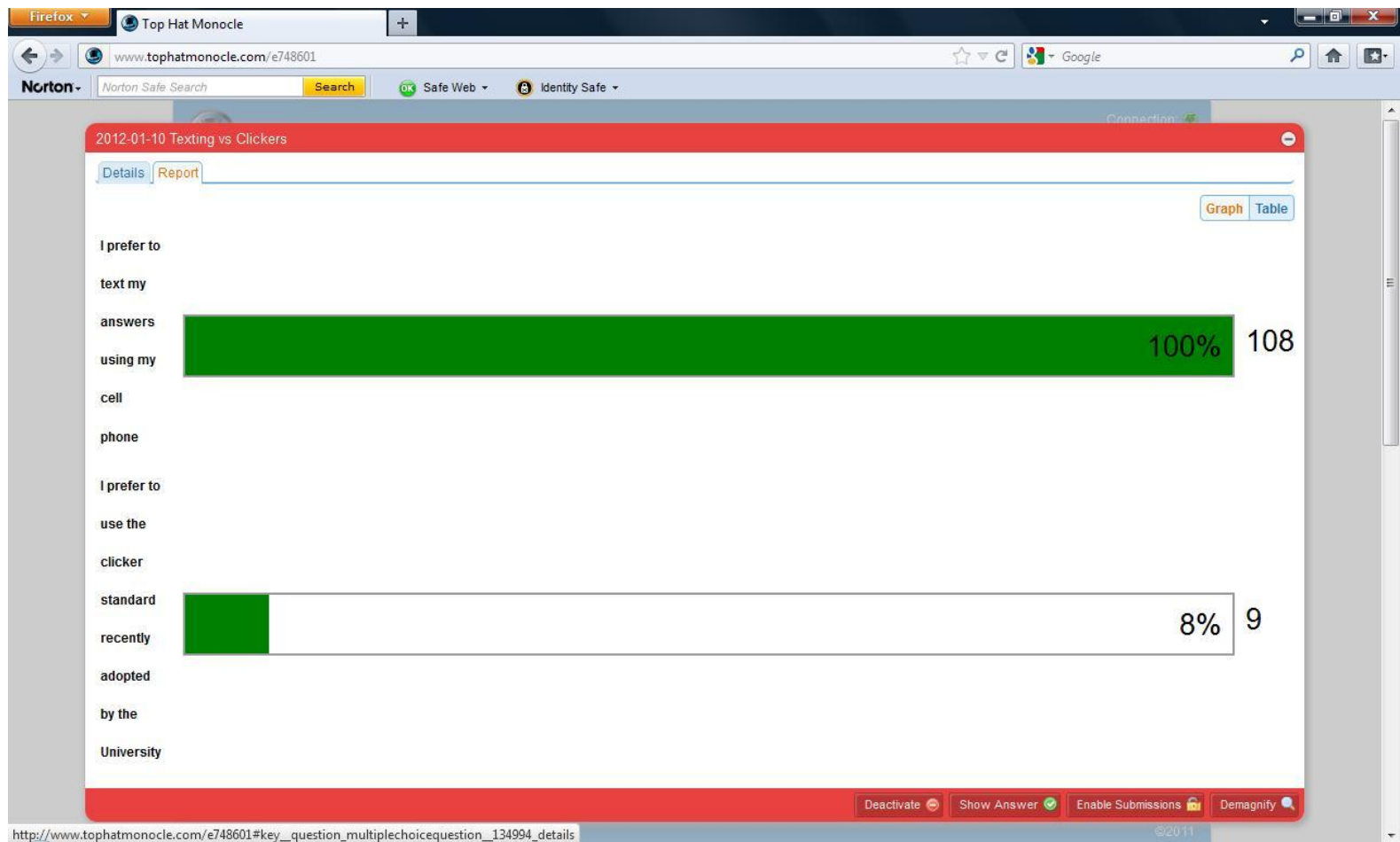
# Class Policy Issues Relative to CRS

- When will Graded Assignments begin?
  - ▣ No grading will be done for the first week of class.
  - ▣ Graded assignments will begin with the second week (i.e., January 17, 2012 – April 26, 2012)
- Sickness/Forgetfulness/Extracurricular Activities
  - ▣ The top 20 class periods will be counted (i.e., 5% of each class period towards a grade)
  - ▣ Not counted
    - Two assignments for the first week of class
    - Eight of your lowest scores for additional class periods

# Time to Vote

- Cell phone text answers to (315) 636-0905
- If you want to use texting
  - ▣ 2298 a
- If you want to use clickers
  - ▣ 2298 b
- No Cell Phone?
  - ▣ Put your answer on a piece of paper and hand to Prof Penn

# Results of the vote





# Categorization of the Grading

## □ Attendance

- ▣ Students arrive late to class or leave early
- ▣ You must answer  $>66\%$  of the questions posed in class to earn an attendance point
- ▣ You are present (1 point) or you are not present (0 points)
  - There are no excuses. Everything counts
  - Remember that I'm giving you credit for  $1/3$  of the class periods for the semester (10 classes out of a total number of 30 classes total in the semester)

# Categorization of the Grading

## □ In-class quizzing

- ▣ Answers are either correct or incorrect (i.e., there is no partial credit)
- ▣ Calculation of the final “in-class Quiz” grade
  - A percentage grade for each class period will be calculated by simply calculating the number correct divided by the total number of questions given in a certain class period.
  - The grades from the top 20 classes will be averaged to calculate the “in-class” quiz grade.

# Calculation of the final course grade

<b>Component of Final Grade</b>	<b>Percentage Used in Calculation</b>
<b>Exam 1</b>	<b>20%</b>
<b>Exam 2</b>	<b>20%</b>
<b>Exam 3</b>	<b>20%</b>
<b>Exam 4 (Cumulative Final Exam)</b>	<b>30%</b>
<b>Attendance</b>	<b>2%</b>
<b>In-class Quizzes</b>	<b>4%</b>
<b>Homework</b>	<b>4%</b>
<b>Bonus Credit</b>	<b>Variable</b>
<b>Final Numerical Score</b>	<b>100% + Bonus Credit</b>

# Examinations

Exam number	Date	Time
Exam Number 1	Tuesday, February 14, 2012	7:30 – 9:30 PM
	Wednesday, February 15, 2012	7:00 – 9:00 PM 9:00 – 11:00 PM
Exam Number 2	Tuesday, March 6, 2012	7:30 – 9:30 PM
	Wednesday, March 7, 2012	7:00 – 9:00 PM 9:00 – 11:00 PM
Exam Number 3	Tuesday, April 3, 2012	7:30 – 9:30 PM
	Wednesday, April 4, 2012	7:00 – 9:00 PM 9:00 – 11:00 PM
Exam 4 (Final Exam)	Tuesday, May 1, 2012	7:00 – 9:00 PM
	Wednesday, May 2, 2012	7:00 – 9:00 PM 9:00 – 11:00 PM
Exam 4 (Retake Exam)	Thursday, May 3, 2012	7:00 – 10:00 PM

# Details Concerning Examinations

- Location: Soc/Anthro Testing Facility (1<sup>st</sup> Floor, CRL)
- Practicing for the Exam available using the WE\_LEARN system for organic chemistry
- Choose your test time option from the following list
  - ▣ Tuesday night
  - ▣ Wednesday night
  - ▣ Appointment in Dr. Penn's Office (by mutual consent)

# Details Concerning Examinations

- Make-up Exams or Extended Time for Studying
  - ▣ Arrangements made prior to close of business on Monday during exam week
    - Computerized Exam at a time acceptable to both student and professor
  - ▣ Arrangements made after close of business on Monday during exam week
    - Oral make-up exam in Penn's Office

# Exams: Appealing the Grading

- Answers to all questions are stored in the server computer
- Students will print to an electronic file
  - ▣ This file becomes your permanent record of the exam
  - ▣ Answers to questions can be appealed later
- Appealing Answers
  - ▣ Dr. Penn's Office during Office Hours
    - Prof. Penn gets a chance to meet you and learn your name and face

# Homework



- Homework will be assigned in the WileyPlus System
- Approximately 75 assignments will be due in the course of the semester
- No individual extensions of time will be given



# Bonus Credit

- Bonus credit is available if you are the first to report a problem in
  - WileyPlus
  - WE\_LEARN
  - Course Arrangements, Syllabus, ETC
- Each bonus credit is worth 0.1% added to your final numerical score in the course.
- Requests for bonus credit must be submitted by email to [John.Penn@mail.wvu.edu](mailto:John.Penn@mail.wvu.edu). The time/date stamp on the email will be used to determine who was first

# Instructions for Submitting Potential Bonus Issues

- Take a picture of the problem. I need to see what you are seeing. Take a screen shot and send the picture file to me.
  - ▣ Windows systems –
    - Ctl-Alt-PrtScrn to copy the contents of the screen to the Clipboard
    - Open the program “Paint”
      - Paste the contents of the Clipboard to Paint (Ctl-V or find the Paste Command in the menu)
      - Save the file as a \*.jpg file or a \*.gif file

# Bonus Credit Issues

- Where to submit
  - ▣ Email to John.Penn@mail.wvu.edu
- What to submit
  - ▣ Picture File
    - Needs to contain Question Number (the orange-colored number at the top of the screen)
  - ▣ Your description of the problem in the question
- How will you know whether you have gotten bonus credit or not?
  - ▣ Dr. Penn will send you confirmation of your bonus credit via email

# Everyone Gets One Bonus Credit

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- Question 1 in the first assignment in WileyPlus
  - Send in a screen shot

# Calculation of the final course grade

<b>Component of Final Grade</b>	<b>Percentage Used in Calculation</b>
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<b>Bonus Credit</b>	<b>Variable</b>
<b>Final Numerical Score</b>	<b>100% + Bonus Credit</b>

# Final Letter Grade

Final Numerical Score	Letter Grade
$> 90\%$	A
80 % – 90%	B
70% - 80%	C
55% - 70%	D
$<55\%$	F

There is no rounding of final numerical scores. For example, 89.5% is still a grade of a B.

You must score  $>50\%$  on the final exam to get a grade of D in this course.