http://butane.chem.illinois.edu/CHEM101B/fa16
1 Materials
Required Materials

**Textbook**
*Introductory Chemistry: A Foundation (8th edition)*
by Zumdahl and DeCoste

**iClicker**
Purchase in bookstore
iClicker 1 or iClicker 2

**Syllabus/Lab Manual**
*Chemistry 101 Syllabus and Lab Book*
Fall 2016

**Calculator**
Capable of scientific notation
Graphing calculator okay
NO Ti-Nspire
Required Materials

Safety Goggles
Honeywell Uvex Stealth
OT Safety Goggles

Lab Notebook
Any notebook will work

Lab Apron/Coat
Course Format
Provide “big picture”
- How do we think about science?
- How do we solve a problem?

Interactive
- I expect and encourage questions.
- Participation expected through iClickers.
Astronauts undergo very rigorous training. They must be able to perform dangerous work while hurtling through space, all without throwing up. China is after the best-of-the-best for its space program. What might its candidates be tested for?

- (A) Hand-eye coordination
- (B) Bad breath
- (C) Sobriety
- (D) Parallel parking skills

Source: Wait Wait… Don’t Tell Me! Daily News Quiz, 8/6/09
Correct Answer is (B) bad breath.

The Chinese training program won’t accept space hopefuls with bad breath!

Source: Wait Wait... Don’t Tell Me! Daily News Quiz, 8/6/09
Clicker Points

- Participation Points: answer at least 75% of questions
  - 1 point per lecture
  - Capped at 20 points (24 lectures w/clickers)
  - 4 absences
- Bonus Points: earn 0.2 points for every correct answers
No Electronics!
“Participants who multitasked on a laptop during a lecture scored lower on a test ... and [those] who were in direct view scored lower.”

Cone of Distraction

\[ COD = \frac{1}{3} \pi \left( r_1^2 + r_1 r_2 + r_2^2 \right) h \]

Where:
- \( r_1 \) = screen diagonal
- \( r_2 = (\Delta A / \Delta t) \times P_{ppt} \)
Lab Sections (Wednesdays)

- Met yesterday!
- Watch lab safety video.
- Take lab safety quiz on LON-CAPA.
- You must pass the safety quiz!
  Or you will meet with Serenity.
Lab Sections (Wednesdays)

- Lab write-ups must consist of coherent explanations and complete sentences.
- This is another chance for discussion of chemical principles.
- TAs will give more information.
Discussion Sections (Friday)

- Meets tomorrow!
- Smaller groups
- More details in solving problems
- Must take an active role (collaborate)
Homework
Discussion Sections (Friday)

- Textbook homework due Friday in Discussion (assigned problems listed in Lab Book p. 12)
LON-CAPA (online)

- Type 1 HW: “unlimited” attempts (99 tries)
- Type 2 HW: 5 attempts
- Prelecture Assignments: 2 attempts (read textbook sections first!)
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4 Exams
Exams

- Evening exams: 7:00pm – 8:30pm
- Dates given in Lab Book
- Multiple choice and free response
- Previous exams will be posted
You will be your best teacher!
24.17 hours of lecture
12.50 hours of discussion
32 hours of lab
64+ hours of office hours

There are many resources!
Office Hours

Mioy
Office: 367E Noyes
Tuesdays & Thursdays
9:00am – 10:00am (or by appointment)

Teaching Assistants (TAs)
Chemistry Learning Center (CLC)
230 Davenport Hall
See TA for schedule
General Email Advice

- Put your name
- Use @illinois.edu account (or put netid after name)
- Don’t use text message codes/words
- Try not to erase my emails/messages
- Try to ask your TA first!
BAD
To: mthuynh2@illinois.edu
From: 2hot4u@gmail.com
I dont get problem 3
Srsly, plz help k thx

-JD

GOOD
To: mthuynh2@illinois.edu
From: jdoe5@illinois.edu
Hi Mioy (You’re the best),
I am having trouble understanding problem #3 of the Additional Questions on pg. 23 of the Lab Book. How should I make the drawings for each measurement? Can you give me some guidance? Thanks!

-Jane (jdoe5, BDA, Chem 101)