# Introductory Chemistry --- CHM 103
# Course Information and Syllabus
# Fall Semester, 2014

## Instructor

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Phone: (401) 874-2384 Office: 333B Pastore Hall
Office Hours: 12 noon – 2 pm Monday – Friday or by appointment.

**SI Leader:** KNikkole Turgeon Email: NTurgeon@my.uri.edu
**SI Meeting**: Monday 3:30-5:00 pm, TBA.
Wednesday 4:00-5:30 pm, TBA.

### Required Lecture Materials

1) Textbook: **Introductory Chemistry for Today** (Seager/Slabaugh, 8th edition)
2) **OWLv2** on line web learning system; purchase with text book.
Students of this course need key code: **E-HY7W5KUDLE5ZA**
3) Turning Technologies NXT clicker; purchase in Book Store (Rebate available for your clicker). Register your clicker ID in Sakai.
4) CHM 103 Skills Practice book purchase at Chemistry Stock room, 210 Pastore Hall.
5) Scientific calculator with log and exponent functions.
Calculators will not be provided; student will NOT be allowed to share during exams.
6) Students are expected to print their own copies of course documents.

### Class Meetings

Section 001: T TH 9:30 – 10:45 AM 124 Pastore
Section 002: T TH 3:30 – 4:45 PM 124 Pastore

Do not miss lecture. We use clickers and the points go towards homework. It is in your best interest to take notes during lecture. This information will aid you in doing well on the exams. It is in your best interest to take notes during lecture. Taking notes will aid you in learning the material and doing well on the exams. Your behavior in the lecture hall says a lot about your dedication as a student. Please turn off all cell phones and audible beepers before entering the lecture hall. Please arrive on time and do not walk out early. Please refrain from random computer use and idle chatter in the classroom; it is discourteous and distracting to your classmates.

## Hints for Success - PPP method (Prepare, Participate, Practice)

**PREPARE: - Before class: Read the text material** in preparation for the next class as listed in the syllabus. **Review previous class notes. Bring questions about unclear topics.** Complete and submit the assigned **OWLv2 homework exercises** weekly. The OWLv2 System is designed to HELP STUDENTS LEARN. Students will receive credit for a total of **360** OWL problems. OWL assignments include recommended tutorials. Extra chance problems of equal value are available in case recommended problems prove too difficult. Try to learn as much as you can with the OWLv2 problems. Students will need to stay on track and on time with the OWLv2 homework. Each assignment will have a due date that corresponds with the timing of each lecture topic. Ample time is provided to complete each assignment. Since the OWLv2 system is intended to be a key learning task in this course, the assignments may be worked in student study groups and/or with help from a tutor, as open book exercises.

The **Skill Checks** tool in Sakai will probe your pre-lecture understanding of key concepts, and push you to think carefully about the new skills you're learning. Similar to OWL, these will consist of "pooled " questions – a set number of questions will be selected at random from a larger pool each time you open the Skill Check. After you've completed (and received credit for) a Skill Check, you can re-open it to answer a different set of questions, and "skill-drill " until you can answer each question correctly.

**PARTICIPATE: - During class: Take notes, ask questions and respond to my questions.** Feel free to ask any question about the subject even a "stupid" one. If you are unsure what to do or what was said, so are others. Ask the question if not for yourself then for your fellow students. **NXT clickers** will be utilized in class as one of the forms of in class response. Be sure to register your clicker, in the Turning Technologies section of the CHM 103 SAKAI homepage. Register "for this class" not for "all classes". I will award 1 point for each correct clicker answer and apply it to your OWLv2 homework to account for work there. The Skills Checks points will also be added to further help to reduce homework.

**PRACTICE: - After class: Reread your notes** within 24 hours of the lecture and **fill-in any blanks**. Make a friend and check their notes to see if you missed anything. Look over the appropriate pages in the Skills Book and read them to fill-in any blanks. **Write a question in the margin** that will summarize each section. Answer these questions as you study the next day. **Do the assigned OWLv2 homework** by Sunday at 11:55 pm.

## Course Learning Objectives

Students will have the opportunity to master introductory Chemistry principles. Lecture will provide insight into historical people and events related to chemistry. The ecture will also provide relevant examples of the application of chemical principles in everyday life, and the opportunity to have practice solving chemical problems.

## On-Line Technology

**SAKAI:** Sakai is the University of Rhode Island, campus-wide class-room management tool. Nearly all classes at URI have a web site on Sakai as does CHM 103. Students should see a course tab for CHM 103 Introductory Chemistry Lecture when the main portal of Sakai https://sakai.uri.edu/portal is opened with your campus user-name and password. The CHM 103 website on Sakai will be the main communication tool for announcements generated by me. Grades will be kept on Sakai. Students will be able to download old quizzes, and relevant videos from the resource section of Sakai.

Students will have to register their NXT clickers on Sakai using the ResponseCard tab, which is found under the Turning Technologies button on the left-hand edge of the website. Students should register their NXT clicker under the "**Just this Course**" option. Also when inputting the 6 character NXT clicker ID number, please note that 0 is a zero and not an O, otherwise a bad format error will ensue. The NXT clicker will be used in CHM 103 class daily and during exams. You should bring it to all our classes.

**OWLv2 usage:** On-line Web Learning, OWLv2, is a product of the Cengage company, who makes our text book. Homework assignments for CHM 103 will be completed in OWLv2. Students will need to register in OWL using the registration card, that came inside the textbook. It is possible to purchase a card alone from the bookstore or on-line if you already have a text book. Owlv2 will be the main communication tool for homework related questions from students to me using my email address listed above.

Students can get to the main portal of OWLv2 at: http://www.cengagenow.com At this website students choose

**Cheating**

All forms of academic dishonesty are a violation of the University Honor Code and are strictly forbidden. You must NOT cheat during exams and Not even give the appearance of cheating. During an exam, I may ask a student to move to another seat. You should just move. You must not change test answers for regrading. But you may ask me to check an exam if you think I have made an error it totaling the sums of the grade. A student who commits academic dishonesty will receive a failing letter grade for the exam and a possible failing grade for the course. Further sanctions may be imposed by the College Dean.

## Grading Policy

Each student's lecture course grade will be assigned by me based on:

| | | |
|---|---|---|
| 4 Cumulative Mid-Term Exams (15 % each) | = 60 % | (480 pts) |
| OWL Homework, Skill Checks and Clicker Usage | = 15 % | (120 pts) |
| 1 Cumulative Final Exam (25 %) | = 25 % | (200 pts) |
| **Total** | **= 100 %. (800 pts)** | |

Grading will be as follows:

at least 90% guarantees an A (A- or A)
at least 80% guarantees a B (B-, B or B+)
at least 70% guarantees a C (C-, C or C+
at least 60% guarantees a D (D or D+)
less than 60% guarantees an F.

There are NO extra credit assignments outside of some given as part of the online homework to help students get the full 15% credit in that category. Students with valid permission can apply to me to make up a missed Mid-term exam. In some valid permission cases, I may replace the missing grade with the average of your remaining 3 mid-terms. No student may just drop an exam and expect me to replace the grade by averaging without a valid, written medical or URI team or club related sports even. If you miss two or more Mid-term exams, you will need to repeat the course. All students must take the Final Exam.

Students need to successfully complete 360 Homework points, which are a combination of OWLv2, Clicker and pre-class Skill check points. This will be divided by 3 to get the 120 Homework points mentioned above. If a student successfully completes more than **360** Homework points that is good, but it will still be limited to 120 maximum Homework points.

Important Fall Semester Deadlines.

- Last day of eCampus open add period: Thursday, September 9th.
- Last day of eCampus add with permission number: Thursday, September 16th.
- Last day for students to drop courses via eCampus with no transcript designation: Wednesday, September 24th
- Last day for students to drop courses via eCampus (with drop designated on transcript): Wednesday, October 15th
- Freshman mid-term grades posted in eCampus: Thursday, October 23nd

CHM 105 Lab grades are separate and will be determined by the lab instructor.

| Introductory Chemistry --- CHM 103<br>Course Schedule Fall Semester, 2012 | | |
|---|---|---|
| **Week #** | **Tuesday** | **Thursday** |
| 1 | **9/02**<br>**No Classes – Advising Day**<br>**HW:** No End of Chapter Homework (EOC) | **9/04 - Lesson 1 - Gen Course information**<br>**Ch 1: Matter, Measurements, Calculations**<br>**HW:** Owl Intro, Math 1-2 and EOC 1.1 |
| 2 | **9/9 - Lesson 2**<br>**Ch 1: Matter Measurements Calculations**<br>**HW:** Math 3, and 1.2, 1.4, 1.6, and 1.7 | **9/11 - Lesson 3**<br>**Ch 1: Matter Measurements Calculations**<br>**HW:** 1.8, 1.9, 1.11 and EOC 1.2 |
| 3 | **9/16 - Lesson 4**<br>**Ch 1: Matter Measurements Calculations**<br>**HW:** Additional and EOC 1.3 | **9/18 - Lesson 5**<br>**Ch 2: Atoms and Molecules**<br>**HW:** Math 4, and 2.1, 2.2, 2.3, 2.4 and EOC 2.1 |
| 4 | **9/23 - Last Day to Drop Class - 9/24.**<br>**Ch 2: Lesson 6 - Atoms and Molecules**<br>**HW:** 2.5, 2.6, 2.7, Additional and EOC 2.2 | **9/25 - Lesson 7**<br>**EXAM 1 Chapters 1-2**<br>**HW:** |
| 5 | **9/30 - Lesson 8**<br>**Ch 3: Electronic Structure, Periodic Law**<br>**HW:** 3.1, 3.2, 3.3 and EOC 3.1 | **10/03 - Lesson 9**<br>**Ch 3: Electronic Structure Periodic Law**<br>**HW:** 3.4, 3.5, 3.6 and EOC 3.2 |
| 6 | **10/07 - Lesson 10**<br>**Ch 4: Forces Between Particles**<br>**HW:** 4.1, 4.2, 4.3 and EOC 4.1 | **10/09 - Lesson 11**<br>**Ch 4: Forces Between Particles**<br>**HW:** 4.4, 4.5, 4.6, 4.8 and EOC 4.2 |
| 7 | **10/14 -Lesson 12**<br>**Ch 4: Forces Between Particles**<br>**HW:** Math 5 and 4.9, 4.10, 4.11 and EOC 4.3 | **10/16 - Lesson 13**<br>**Ch 5: Chemical Reactions**<br>**HW:** 5.1, 5.3, 5.4, 5.5, 5.6 and EOC 5.1 |
| 8 | **10/21 - Lesson 14**<br>**Ch 5: Chemical Reactions**<br>**HW:** 5.8, 5.9, 5.10, 5.11 and EOC 5.2 | **10/23 - Lesson 15**<br>**EXAM 2 Chapters 3-5**<br>**HW:** |
| 9 | **10/28 - Lesson 16**<br>**Ch 6: States of Matter**<br>**HW:** Math 6, and 6.1, 6.2, 6.6, 6.7,6.8, EOC 6.1 | **10/30 - Last Day to Withdrawal Class.**<br>**Ch 6: Lesson 17 - States of Matter**<br>**HW:** 6.9, 6.12, 6.13, 6.15 Additional, EOC 6.2 |
| 10 | **11/04 - Lesson 18**<br>**Ch 7: Solutions and Colloids**<br>**HW:** 7.1, 7.2, 7.3 and EOC 7.1 | **11/06 - Lesson 19**<br>**Ch 7: Solutions and Colloids**<br>**HW:** 7.4, 7.5, 7.6 and EOC 7.2 |
| 11 | **11/11 - Lesson 20 - Classes do NOT meet.**<br>**Ch 7: Solutions and Colloids**<br>**HW:** 7.7, 7.8 and Additional and EOC 7.3 | **11/13 - Lesson 21**<br>**EXAM 3 Chapters 6-7**<br>**HW:** |
| 12 | **11/18 - Lesson 22**<br>**Ch 8: Reaction Rates and Equilibrium**<br>**HW:** 8.1, 8.2, 8.3, 8.4, 8.5, 8.6 and EOC 8.1 | **11/20 - Lesson 23**<br>**Ch 8: Reaction Rates and Equilibrium**<br>**HW:** Math 7, 8.7, 8.8, Additional, EOC 8.2 |
| 13 | **11/25 - Lesson 24**<br>**Ch 9: Acids, Bases and Salts**<br>**HW:** 9.2, 9.3, 9.4, 9.5, 9.9 and EOC 9.1 | **11/27 - Lesson 25**<br>**No Classes – Thanksgiving Day Holiday**<br>**HW:** |
| 14 | **12/02 - Lesson 26**<br>**Ch 9: Acids, Bases and Salts**<br>**HW:** 9.11, 9.12, 9.13, Additional, EOC 9.2, 9.3 | **12/04 - Lesson 27**<br>**EXAM 4 Chapters 8-9**<br>**HW:** |
| 15 | **12/09 - Lesson 28**<br>**Reading Day:** No classes<br>**HW:** Finish OWL problems. | **FINAL EXAM**<br>**Section 001:** Dec 11; 8-11 am, 124 Pastore<br>Section 002: Dec 11; 3-6 pm, 124 Pastore |