Chemistry 200-002
Introduction to Chemical Principles
Spring 2016

Instructor
Dr. Michelle Greene
Office: Neckers 295
Office Hours: Monday @ 10-11:30 am; Tuesday @ 1-3 pm; Thursday 10-11:30 am
E-mail: mgreene@chem.siu.edu

Required Materials
Connect Registration Code
i>Clicker Classroom Performance System
Non-programmable scientific calculator for exams (cannot use smart phone, tablet or laptop)

Course Times
CHEM 200, MWF 1:00-1:50 pm, Neckers 240

Course Description
“Introduction to Chemical Principles” is a first semester, freshman level chemistry course for science, engineering and pre-professional majors. **You must have had one year of high school chemistry or successfully completed Chemistry 140A prior to enrolling in Chemistry 200.** Math 108 (College Algebra), 109 (Trigonometry and Analytic Geometry), 111 (Precalculus) or 150 (Calculus I) are prerequisites or co-requisites.

This course must be taken concurrently with Chemistry 201 (laboratory) and Chemistry 202 (computer workshop). If you are repeating the course and have passed the laboratory within the last two years (at SIUC only), you may be excused from Chemistry 201.

Course Objectives
The course is designed to meet four major objectives. These are to provide the student with the following tools:
1. An understanding and appreciation for the fundamental concepts of chemistry. The topics to be discussed are listed in Course Content. The material is presented at a level suitable for those students who will be majoring in one of the sciences.
2. A logic-based, problem solving approach that can be consistently applied.
3. An understanding of how these fundamental chemical concepts can be applied to everyday life and to current problems of relevance in the world.

SIU Email
Your SIU email account is an official form of University communication. The instructor and TAs will use SIU email as a primary means of electronic communication with students. Please make sure that you maintain a valid password and acquire the habit of regularly checking your SIU email account for important instructor and University announcements. You may view the official SIU Student Email Policy at: [policies.SIU.edu/policies/email.html](policies.SIU.edu/policies/email.html)

SIU Online Website
Course content will be available through a SIU Online (D2L) website. Students will need to refer to this website frequently to receive important information. The website can only be accessed by students
registered for the course. The website will contain the following information: Calendar, Grades, Suggested End-of-Chapter Problems, Lecture Notes and Syllabus. Other information may be added by the instructor over the course of the semester.

**Grading**

Letter grades will be assigned as follows:

- **A** 85 – 100%
- **B** 75 – 84%
- **C** 65 – 74%
- **D** 55 – 64%
- **F** 0 – 54%

For all students enrolled in Chemistry 202 (Structured Learning Workshop), the letter grade for BOTH Chemistry 200 and 202 will be based on the weight percentages shown below:

- Structured Learning Workshop Average: 10%
- Assigned On-Line Homework Average: 5%
- i>clicker In-Class Response Average: 10%
- Exam Average: 55%
- Final Exam: 20%

**Note:** Withdrawal from Chemistry 202 at any point in the semester will result in the student receiving a zero for the remaining assignments and these zeroes will be included in the Structured Learning Workshop Average.

For Engineering Majors who have been issued an override by the College of Engineering and are not registered for Chemistry 202 (Structured Learning Workshop), the letter grade for Chemistry 200 will be based on the weight percentages shown below:

- Assigned On-Line Homework Average: 5.5%
- i>clicker In-Class Response Average: 12%
- Exam Average: 60.5%
- Final Exam: 22%

This grading policy will be strictly enforced. Please note that the university policy regarding incompletes states: An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. In other words, **under no circumstances, will an INC be given to a failing student to prevent him or her from receiving an F.**

**Structured Learning Workshop Average:** Structured Learning Workshops (SLWs) are held in the Chemistry Computer Lab located in Neckers 118. The SLWs are led by dedicated teaching assistants who will proctor the assignment and be available to assist students when questions arise. The lowest session will be dropped from the calculated average. SLW assignment problems are delivered and graded using the Connect on-line homework system.

**Assigned On-Line Homework Average:** Homework will be assigned throughout the course via the Connect on-line homework system. These questions are assigned to provide additional opportunity for practice and allow for mastery of the material covered in this course. Students should expect 2-3 homework assignments each week. The assignments for each chapter will be averaged, and the lowest chapter average will be dropped from the calculated average.

**i>clicker In-class Response Average:** During each class period, questions requiring student response through the i>clicker will be presented. Two (2) points will be awarded if the question is answered correctly or one (1) point will be awarded for participation. The iclicker average will be calculated as the total points earned divided by the total points possible. Twenty points will be subtracted from the total
points possible in calculating the average. **Because each student earns points toward their course grade using the i>clicker, instances when a student brings another student’s i>clicker to lecture will be considered academic dishonesty and will be promptly reported to students’ academic advisor(s).**

**Exams:** The exams will be given in class as designated on the schedule. Please note that the schedule is tentative and may be changed by the instructor at any time. **No makeup exams will be given.** The student will be allowed to drop the lowest exam score. You will not be allowed to bring any notes into the examination. Relevant constants and equations will be provided. **Any information brought into the examination through notes, through programmable calculators or cell phones constitutes academic dishonesty. Consulting your cell phone for ANY reason during an exam is assumed to be cheating and will be treated as such. Any form of cheating will result in judicial proceedings in accordance with Southern Illinois University’s policy on academic dishonesty.**

**Final Exam:** The final exam is comprehensive. The final exam date and time is scheduled by the university. **Any student who does not take the final exam will receive a zero for the final exam grade.**

**Course Content**

**Tentative Lecture Topic and Exam Schedule**

Any information in the reading assignments may show up on in-class questions or exams. However, the most important concepts, as discussed in the lectures, reinforced in the SLWs, mastered in the assigned homework sets and suggested end-of-chapter problems, will dominate the question/exam material so it is to the students benefit to attend classes and SLWs regularly and work these problems.

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<tr>
<th>Week</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Jan 19 - 22</td>
<td>No School</td>
<td>1st Day Lecture</td>
<td>Ch 1</td>
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<td>Jan 25 - 29</td>
<td>Ch 1</td>
<td>Ch 2</td>
<td>Ch 2</td>
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<td>Feb 1 - 5</td>
<td>Ch 2</td>
<td>Ch 2</td>
<td>Ch 3</td>
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<td>Feb 8 - 12</td>
<td>Ch 3</td>
<td>Ch 3</td>
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<td>Feb 15 - 19</td>
<td>Exam 1 (Ch 1-3)</td>
<td>Ch 4</td>
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<td>Feb 22 - 26</td>
<td>Ch 4</td>
<td>Ch 4</td>
<td>Ch 5</td>
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<td>Feb 29 - Mar 4</td>
<td>Ch 5</td>
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<td>Mar 7 - 11</td>
<td>Exam 2 (Ch 4-5)</td>
<td>Ch 6</td>
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<td>Mar 14 - 18</td>
<td>Spring Break (No Classes)</td>
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<td>Mar 21 - 25</td>
<td>Ch 6</td>
<td>Ch 7</td>
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<td>Mar 28 - Apr 1</td>
<td>Ch 7</td>
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<td>Apr 4 - 8</td>
<td>Ch 8</td>
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<td>Apr 11 - 15</td>
<td>Exam 3 (Ch 6-8)</td>
<td>Ch 9</td>
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<td>Apr 18 - 22</td>
<td>Ch 9</td>
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<td>May 2 - 6</td>
<td>Ch 11</td>
<td>Exam 4 (Ch 9-11)</td>
<td>Review</td>
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<td>May 9 - 13</td>
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<td>Final 12:30-2:30 pm</td>
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**Notes**

1) The syllabus can be viewed as a “blueprint” for the course; changes in the syllabus can be made and students will be informed of any substantial changes concerning exams, grading and/or changes to reading or homework assignments.

2) Smart phones, iphones or other digital devices must be turned off and/or in vibrate mode in class. Students engaged in disruptive behavior such as texting, web surfing or game play will be asked to leave the class. If you must leave the room to answer a call, please do so quietly.