Department of Chemistry  
Chem 100 Syllabus (Tentative)  
Fall 2015

Course Title: Introduction to Chemistry (STARS 12615)

Course Description: Introduces the fundamental concepts of chemistry including: matter, atomic structure, periodicity, stoichiometry, and some descriptive chemistry.

Course Credits: 3 semester hours, no Lab

Lecture location and Hours: Currens 202, 3:00 - 4:15 pm on Tu and Th

Pre-Requisite: One year high school algebra or Math 099N

Note: this course is for those students who have completed less than one equivalent year of high school chemistry. This course does NOT provide general education credit.

Instructor: Shu-Hui (Kay) Tsai

Office: Currens Hall 128

Office Hours: M, W, F 9:00am-11:00am (Other times by prior appointments)

Email and Office Number: S-Tsai@wiu.edu, 309-298-1578

Chemistry Resource Center (CRC) in Currens 107: Free tutoring and/or help is provided by the department through the Chemistry Help Center. Hours are 8:00 am – 5:00 pm MTuW & 8:00 am – 2:00 pm Th,F. Also, the WIU Counseling Center provides additional tutoring help.


Also Required: Simple scientific calculator (not a graphing calculator) is required for the course. TI-30XA is recommended.

CLASS FORMAT: It’s important that you obtain the textbook for the class, as many reference charts, tables, and diagrams from the text will be used. The class will closely follow the text sequence. You are encouraged to read the textbook sections to be covered before class.
COURSE OUTLINE

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Chemical World</td>
<td>1</td>
</tr>
<tr>
<td>Measurement and Problem Solving</td>
<td>2</td>
</tr>
<tr>
<td>Matter and Energy</td>
<td>3</td>
</tr>
<tr>
<td>Atoms and Elements</td>
<td>4</td>
</tr>
</tbody>
</table>

Exam 1  (tentative date Tuesday, Sept. 22, 2015)

- Molecules and Compounds                      | 5       |
- Electrons in Atoms and the Periodic Table    | 9       |
- Chemical Bonding                             | 10      |

Exam 2  (tentative date Tuesday, October 20, 2015)

- Chemical Composition                        | 6       |
- Chemical Reactions                          | 7       |
- Quantities in Chemical Reactions            | 8       |

Exam 3  (tentative date Tuesday, November 17, 2015)

- Gases                                        | 11      |
- Liquids, Solids, and Intermolecular Forces  | 12      |
- Acids and Bases                              | 14      |

Exam 4  (tentative date Tuesday, December 08, 2015)

NOTE: The course syllabus/outline is tentative and the instructor can change any aspect of it with advance notice to students.

*Comprehensive Make-Up Exam: 6:00 pm, Wed., Dec. 09, 2015

Comprehensive Final Exam  3:00-4:50 pm Thursday, December 17, 2015

*Please note: the final exam WILL NOT BE GIVEN EARLY to accommodate your travel plans. Please make your travel plans with this in mind.

4. PERFORMANCE AND GRADING SCALE

Four hour exams (each worth 100 points, best five of seven lecture quizzes (each worth 20 points), four homework sets (100 points) and a comprehensive
Final exam worth 150 points will be given. Exams and quizzes will be part multiple choice, part matching, and part short answer (show your work).

Outside work requirement: Students are expected to review, study and learn all material discussed in lecture, as well as read assigned chapters in the textbook, and to work assigned practice problems/questions/terms listed in class or on Western Online.

Attendance Policy: You are expected to attend class regularly and punctually. All students are responsible for all information given in class, starting on the first day of classes, (regardless of when you register whether present or not.) Roll will be taken every day. Any student who has received nine or more absences may be dropped from the course without prior notice. Excessive absences will be reported to the financial aid office. Any student who arrives late for an exam may not be allowed to take the exam. Students are responsible for all material presented in class whether present or not. New material is presented during each class lecture.

It is the student’s responsibility to get class notes from their classmates for any class missed. It not the instructor’s responsibility to provide class notes for absent students. Students are expected to memorize/learn the material outside of class by studying a minimum of 2-3 hrs outside of class for each lecture period.

In order to accommodate absences due to illness, and other excused absences, only the best five quiz scores will be counted, and a comprehensive make-up exam (which can be substituted for one missed exam) will be given. No other make up exams will be given. If you miss more than one exam and two quizzes it is recommended that you drop the course.

Seating will be assigned by the instructor during the exams and/or any other time deemed necessary. The exam will not begin until all students are properly seated. Simple scientific calculators only (example TI-30XA) may be used on quizzes and exams, however NO other data storage device, such as graphing calculators, cell phones, laptops, MP3 players, notebooks, IPADs or IPODs are permitted to be used in the classroom at any time. Exam and quiz dates are announced in advance during lecture periods and on Western OnLine.

A single comprehensive make up exam will be given at the end of the semester and may count as one missed exam (due to an excused absence)*. The best 5 of 7 (or more) quiz scores will be counted for a grade.

*Students who are called away from campus to participate in University sponsored trips, such as athletics or professional meetings (not sorority/frat or other clubs) may be allowed to make up exams and quizzes if the student provides a signed memo from the faculty sponsor at least 7
days before the expected absence. NO EXCEPTIONS TO THE SEVEN DAY WRITTEN NOTICE.

Methods of Assessment of Performance:

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Exams</td>
<td>400 pts</td>
</tr>
<tr>
<td>Best 5 Quiz Grades</td>
<td>100 pts</td>
</tr>
<tr>
<td>Homework</td>
<td>100 pts</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>150 pts</td>
</tr>
<tr>
<td><strong>Total possible</strong></td>
<td>750 pts</td>
</tr>
</tbody>
</table>

Grading Scale: Grades are assigned based on total points achieved after the final exam scores have been posted:

<table>
<thead>
<tr>
<th>Total points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>690 - 750</td>
<td>A</td>
</tr>
<tr>
<td>660 - 689</td>
<td>A-</td>
</tr>
<tr>
<td>630 - 659</td>
<td>B+</td>
</tr>
<tr>
<td>600 - 629</td>
<td>B</td>
</tr>
<tr>
<td>570 - 599</td>
<td>B-</td>
</tr>
<tr>
<td>540 - 569</td>
<td>C+</td>
</tr>
<tr>
<td>510 - 539</td>
<td>C</td>
</tr>
<tr>
<td>480 - 509</td>
<td>C-</td>
</tr>
<tr>
<td>450 - 479</td>
<td>D+</td>
</tr>
<tr>
<td>420 - 449</td>
<td>D</td>
</tr>
<tr>
<td>390 - 419</td>
<td>D-</td>
</tr>
<tr>
<td>0 - 389</td>
<td>F</td>
</tr>
</tbody>
</table>

Exam grades are based on the total number of correct answers, and all grades are final. No curve will be applied to exam grades, and no “retakes” will be allowed. No “extra point” assignments will be made or applied to grades. Students can view their individual quiz and exam scores on Western OnLine (WIU ECom is required for login).

CLASsROOM POLICIES: Any student convicted of academic dishonesty, (including plagiarism) may receive a failing grade and may be subject to further academic penalties, such as possible expulsion from the university. (See academic dishonesty policy http://www.wiu.edu/policies/acintegrity.shtml.)

Data storage devices other than a simple calculator (TI-30XA) such as cell phones, lap tops computers, IPODs, IPADs, MP3 players, IPADs, Notebooks, Kindles, video games, etc. are not to be used in the classroom at any time. Cell phones must be put away (turned off or placed on vibrate mode and stowed out of sight) during all classroom activities. Text-
messaging is not permitted during the lecture. Use of headphones, bluetooth, ear phones, etc. is not permitted during a quiz or exam. All hats, caps, and hoods that cover your ears are not allowed to be worn during a quiz or exam. The instructor reserves the right to assign seating for the students during exams and/or any other time deemed necessary. Simple scientific calculators may be used on quizzes and exams, however no graphing calculators are permitted.

COURSE POLICY: No incomplete will be given to a student with a failing grade in the course. No incomplete will be given in this course unless the student experiences a documented emergency that takes him/her away from the university for at least two consecutive weeks and/or causes him/her to miss the final exam. The student must notify the instructor of this emergency before the final exam (Thursday, December 17, 2015 at 3:00 pm).

WIU POLICY:
Students with disabilities: In accordance with University values and disability law, students with disabilities may request academic accommodations where there are aspects of a course that result in barriers to inclusion or accurate assessment of achievement. To file an official request for disability-related accommodations, please contact the Disability Resource Center at 309-298-2512, disability@wiu.edu or in 143 Memorial Hall. Please notify the instructor as soon as possible to ensure that this course is accessible to you in a timely manner.

Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency.

Please find the web address for Student Rights and Responsibilities: http://www.wiu.edu/provost/students/php

The following action is prohibited under the Student Conduct Code:

1. Disorderly Conduct: Any behavior which disrupts the regular or normal functions of the University community, including behavior which breaches the peace or violates the rights of others. Web address for Academic Integrity Policy (http://www.wiu.edu/policies/acintegrity.php)

STATE ACCREDITATION POLICY INFORMATION: “In accordance with Illinois State Board of Education certification rules, all candidates seeking teacher certification are required by Western Illinois University to obtain a grade of “C” or better in all directed general education course, all core courses, and all courses in the option. Note: A “C- " is below a “C". Please note: any secondary science teacher certification student wanting to see how this course is aligned with the
State and National Standards should see their advisor and/or examine the Secondary Science Teacher Certification WesternOnline Advising site.

**Emergency Preparedness:** The WIU Office of Risk Management and Emergency Preparedness provides resources on how to respond to emergency situations. Please view the video resources at [www.wiu.edu/rmep](http://www.wiu.edu/rmep/) (Click “Resources” on the right side of the page). If the fire alarms sound and/or students are asked to evacuate the building all students should proceed immediately to the nearest exit and gather at the southwest corner of the Higgins parking lot (near the fence) until the “all clear” is given.

**IMPORTANT DATES:**

- Fall Break: Fri. Oct. 16, 2015
- Early Warning Grades: Tue. Oct. 20, 2015
- Last day to make a total University Withdraw: Sun. Nov. 1, 2015
- Classes resume: Monday, Nov. 30, 2015
- Comprehensive Make up exam: 6:00 pm, Wednesday, Dec. 09
- **FINAL EXAM** 3:00-4:50 pm Thurs. Dec. 17, 2015