Course Outline for General Chemistry 1

General Chemistry 1 (CHM 151)
Room: AS-215  Credit Hours: 4
General Education Course: G (Global Awareness)

NO FOOD OR DRINK (EXCEPT WATER) ARE ALLOWED IN AS-215 (THE LECTURE ROOM) OR IN LAB.

Campus: A campus map is located at http://www.azwestern.edu/campus_map.html

Faculty: Professor Scott Donnelly  Office: AS-128  Phone: 344-7590
You may address me as Professor Donnelly or Professor D. You may not address me on a first name basis until after you have graduated from college.

Email: scott.donnelly@azwestern.edu
Please note that students must use their AWC Toro email account (your id@toro.azwestern.edu). I set up my computer to automatically delete email from personal email accounts. I do this to protect my computer from unwanted and damaging email viruses. To set up an AWC Toro email account go to front desk in the Academic Complex Computer Lab located in the Academic Complex (AC) building and a student lab aide will get you started.

**If you have not set up an AWC Toro account by August 19, a 5% deduction from your earned grade on the first exam will be accessed.**

When sending me an email via the AWC Toro account, make sure that the Subject: line contains your initials and the class alphanumerical identifier and lecture days. Using myself as an example, gives Subject: SJD CHM 151 TTh.

Please note that I do not telecommute from home from Thursday 5pm to Monday 8am. This means that if you send me an email from your AWC account or leave a phone message between the days and times mentioned, then the earliest I will respond is Monday at 8:00:01am.

Office Hours: M 2:00-4:00pm  W 9:30-11:30am, 2:00-3:00pm  Th 9:30-10:15am
The above times are official office hours. This means that I'll be either in my office AS-128 on the first floor or in the chemistry instrument lab AS-211 on the second floor. But please feel free to stop in to discuss chemistry if my door is propped open. As a courtesy please KNOCK first.

**Recommended Texts:** Student Solutions Manual for the text above.

**Calculator:** In order to work the textbook’s End-of-Chapter problems, a scientific calculator (for example, a Texas Instruments 30Xa) is needed. These can be purchased at a local retail store. Make certain that the calculator has LOG and EE (or EXP) buttons.

Please note that you cannot use your personal scientific calculator on a quiz or exam though. A scientific calculator belonging to the AWC chemistry department will be loaned to you for use on any quiz or exam. This calculator must be returned to me immediately after turning in the quiz or exam.

**Course Documents & Blackboard:** All General Chemistry 1 (CHM 151) course documents can be downloaded from the AWC Blackboard website. To download documents you need an AWC Toro email account (see Email: section on first page) to access the AWC Blackboard website, the icon of which is found on the AWC homepage (www.azwestern.edu) on the left side of the screen. Once logged on click on CHM 151-00X-FA11E:[FA2011]General Chemistry 1/GE and then click on Assignments/Lessons. The rest is self-evident.

I do not post grades on the AWC Blackboard site. You are responsible for keeping track of your grades once they are returned to you. Your mid-semester and final grade can be accessed through Webadvisor (www.azwestern.edu).

**NOTE:** You are also responsible for printing the documents found on Blackboard and having them ready for class or lab. If you come to lab without a hardcopy of that week's lab, then you cannot do the lab and will earn a grade of zero for that lab.

**Course Description:** A detailed study of inorganic chemistry is presented with emphasis on quantitative analysis (chemical reaction stoichiometry), organization of the periodic table, naming chemical compounds, predicting reaction products and solubilities, and gas laws, and thermochemistry, time permitting of course.

Hardcopies of the AWC Course Catalog are found in the Student Services section of the 3C building located on the southwest corner of the campus. The catalog also can be downloaded at www.azwestern.edu/Course_Catalog.html.

**Overall Course Goals:**

1) Gain sufficient knowledge and relevant applications of the basic laws of chemistry and chemical principles of chemical reactions and behavior.

2) Gain a meaningful awareness of the local and global relevancy of chemistry and its ideas in the environment and the marketplace.

**Competencies:** Upon satisfactory completion of this course, at a minimum you should be able to:

1) Name compounds when supplied with a compound’s molecular formula and write a compound’s molecular formula when supplied with its name.

2) Predict the reaction product(s) and their solubilities in water.

3) Balance chemical and nuclear reactions.
4) Calculate mole-mass relationships and other stoichiometric relationships from relevant chemical data/information.
5) Convert between and among metric units.
6) Predict ideal gas behavior and properties under different conditions of pressure, temperature, volume, and quantity of gas.
7) Calculate energy values from thermochemical data.

**Prerequisites:** MAT 122 (completed with ‘C’ or better). Also, eligibility for ENG 101 or a minimum score of 65 on the Degrees of Reading Power (DRP) test or permission of the instructor. You will be automatically dropped from the course if you do not have the aforementioned prerequisites.

**Hints for Success:**
- Read textbook (No joking!)…Read it some more!
- Do End-of-Chapter Questions & Problems
- Form Study Groups immediately
- Tutoring in SSC (Student Success Center in SC bldg.; M-Th 8am-8pm, Fri 10am-3pm, Sun 5pm-8pm)

**I strongly advise that you work, study, and learn the End-of-Chapter problems in the week they are discussed in lecture. It is unlikely that you can do satisfactory work in this course without mastering these problems as they are intended to strengthen your basic understanding of chemistry and to improve upon your critical thinking skills.**

Website for SSC: [www.azwestern.edu/learning_services/learning_support_services/student_success_center/index.html](http://www.azwestern.edu/learning_services/learning_support_services/student_success_center/index.html)

**STUDENT RESPONSIBILITIES:**
The following student responsibilities apply to all AWC courses.

**Attendance Policy:** Under AWC Policy, students are expected to attend every session of class in which they are enrolled. **REGULAR ATTENDANCE IS ESSENTIAL TO PASSING THIS CLASS!** Playing “catch up” in this course is especially difficult since each lecture builds on the previous lecture material. Finally, **no absence** is considered excused from course work.

**Withdrawal Policy:** If a student is unable to attend the course or must drop the course for any reason, it is the student’s responsibility to withdraw from the course before the withdrawal deadline. Access the current AWC academic calendar at [http://www.azwestern.edu/student_services/enrollment_and_advisement/calendars.html](http://www.azwestern.edu/student_services/enrollment_and_advisement/calendars.html) for withdrawal deadline. **I will not sign a withdrawal slip for any reason, even legitimate, after the semester withdrawal date.**

**ADA Statement Special Accommodations:** Arizona Western College provides academic accommodations to students with disabilities through the AccessABILITY Resource Service (ARS) office. More information can be found at [www.azwestern.edu/student_services/student_development/accessability_services/](http://www.azwestern.edu/student_services/student_development/accessability_services/). ARS provides reasonable and appropriate academic accommodations to students who have documented disabilities. It is the responsibility of the student to make the Coordinator of ARS aware of the need for accommodations in the classroom prior to the beginning of the semester.
Students should follow up with their instructors once the semester begins. Please contact the ARS Coordinator at (928) 344-7629 or via fax at (928) 344-7720.

**Academic Integrity:** Any student participating in acts of academic dishonesty - including, but not limited to, copying the work of other students, using unauthorized “crib notes”; plagiarism, stealing tests, or forging an instructor’s signature - is subject to the procedures and consequences outlined in AWC’s Student Code of Conduct, which can be found electronically at [www.azwestern.edu/student_services/campus_life/disciplinary/index.html](http://www.azwestern.edu/student_services/campus_life/disciplinary/index.html).

**Texts and Notebooks:** Students are required to obtain the class materials for the course.

**Student Decorum, i.e. How to Behave in a Social Setting:**

1) Students are expected to behave as conscientious, serious-minded, emotionally mature adults in both class and lab.

2) Daily tardiness and constant talking/chatter in or disruption of lecture or lab could potentially lead to a reduction in overall points at the discretion of the instructor. Should tardiness become a problem, then the doors to this room will be locked in order to prevent disruption of the lecture and class. This action, if taken, is fair and courteous to those responsible and mature adult students who are on time and ready to learn. The clock on the wall serves as the official time. Adjust your watches accordingly.

3) Lewd or foul language is unacceptable and will not be tolerated. Such behavior is subject to disciplinary action (see AWC Behavioral Code of Conduct: Policies and Procedures, Section III, Number 6, page 4). This classroom is devoted to civil behavior and higher learning; it’s not a bar or sporting event.

**Cell Phone and Other Annoying Electronic Gadgetry Policy:** Please be advised that in both lecture and lab cell phones must be turned OFF as their operation in the lecture and lab constitute disruptive conduct (see AWC Student Code of Conduct: Policies and Procedures, Section III, Number 1, page 4). VIBRATE does not mean OFF. Cell phone disruptions are not tolerated, are rude and annoying, and interfere with others who want to learn in a quiet, peaceful atmosphere. Also, other electronic gadgetry with audio and video capabilities such as Bluetooth head and ear sets, iPods, MP3 players to name a few and all other similar type products are not allowed in either lecture class or lab.

You are not allowed to record by any means, for any reason visually or verbally my lectures or labs.

*In addition, take care of your personal business including going to the bathroom before you enter the classroom.*

Please note that a 10% grade deduction from your earned exam grade will be accessed every time your cell phone rings or you text message in class or lab.

**Cell Phone Cameras:** Taking photos or digitally recording in class or lab at any time for any reason are strictly prohibited and will result in failure of the class if this policy is violated. Plain and simple. No tolerance.
**Labs:** Lab meets in either AS-210 or 212 (see schedule). Please be advised that the lab doors may be locked if tardiness becomes a problem as defined by Prof. Donnelly.

**NOTE:** As mentioned previously you are also responsible for printing the lab document. If you do not have your own copy of the lab downloaded from the AWC Blackboard website, then you cannot do lab that day and will earn zero credit for that lab.

If you miss the pre-lab safety discussion for whatever reason, legitimate or not, you cannot do lab that day and will earn zero credit for that lab. If you miss pre-lab, then you are deemed a safety liability. This reasonable and common sense policy ensures that students are aware of all potential safety concerns associated with a lab and/or have had the opportunity to ask questions about the lab before the lab has started. In addition, it allows for the instructor to discuss the lab in more detail such as apparatus setup and use without unnecessary interruption.

**Grading:** Your **earned** grade is based on the following **tentative** point criteria. Being **tentative,** the grading criteria are subject to change (either deletions or additions) during the semester without notification. All exams and quizzes unless told otherwise are closed notes and book. Tentative dates for assignment and exams/quizzes are found on the Biweekly schedule (to be discussed first day).

Your mid-term grade is based on the percentage of points earned relative to the total number points possible on quizzes and exams taken up to the time mid-term grades are computed and turned in. I reserve the right to change the grading point total as I see fit and at any time. TBE = To Be Explained

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>150</td>
</tr>
<tr>
<td>Exam 2</td>
<td>150</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 (comprehensive)</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100 (ideally 4 quizzes at 25 pts each)</td>
</tr>
<tr>
<td>Labs</td>
<td>100</td>
</tr>
<tr>
<td><strong>Writing Assignment</strong></td>
<td>100 (TBE later in the semester)</td>
</tr>
<tr>
<td><strong>Total points</strong></td>
<td>700 (approximate)</td>
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</tbody>
</table>

The final grade is awarded according to the percentage of total points **earned.** I don’t “give” grades; grades are earned. The tentative grading scale is as follows:

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-90%</td>
<td>A</td>
</tr>
<tr>
<td>89-80%</td>
<td>B</td>
</tr>
<tr>
<td>79-70%</td>
<td>C</td>
</tr>
<tr>
<td>69-60%</td>
<td>D</td>
</tr>
<tr>
<td>&lt;59%</td>
<td>F</td>
</tr>
</tbody>
</table>

I reserve the right to curve or skew this nominal scale as I see fit based on the performance of the class as a whole or on individual merit.

For those who have had me before you know that exams and quizzes measure how well you have **learned** the material. They do not measure how well you **think** you know the material or how good you **feel** about the material after an exam. The last two statements in bold print are irrelevant to performance.
The instructor reserves the right to not allow a student to turn in late assignments or make-up missed exams or quizzes. Making up missed assignments or accepting late work will be solely at the discretion of the instructor.

To be completely safe in receiving full credit for all assignments, turn in all work on time and participate in all activities, exams and quizzes as scheduled. It is the responsibility of the student to complete all work on time and to communicate any conflicts, difficulties or complications to the instructor prior to missing a deadline. Failure to communicate with the professor will result in a grade of zero (0) for that assignment.

There are NO make-up examinations or quizzes. By my definition a make-up exam or quiz is one that is different from the exam or quiz taken by the class. If a student must be absent on the day of an examination or quiz (an official AWC-sponsored activity or an important scheduling conflict that may justify an excused absence for example), and knows in advance of the prospective absence, the student must notify me well before the scheduled exam or quiz date (a minimum of one week) so the student will be permitted, upon my discretion, to take the examination or quiz in advance (Note: The exam or quiz must be taken in advance and not after you return). If a student is ill on the day of an exam or quiz, and is not able to take the exam or quiz with the class at the scheduled time, it is the student’s responsibility to talk with me on or before that day. Failure to do this will result in a grade of zero (0). An excused (i.e. above mentioned criteria met) missed exam or quiz must be taken the day the student returns to class. Finally, the final exam is comprehensive, i.e. covers the entire semester's topics.

Final Exam:
The AWC Fall 2011 semester Final Exam schedule can be found using the AWC INDEX link located at the top of the AWC homepage. I'm sure you can figure out how to find the information.