Instructor: Dr. Robin Terjeson  
Office: Rm 110; mailbox is in the information center  
Phone: Office 509.527.4389 home (509)876-2125, 9 am-9 pm. Leave a message if necessary.  
Tentative Office Hours: 9-9:20a T, Th- rm 110, and 10:30-11:20a M, W, Th F in TLC.  
Email: robin.terjeson@wwcc.edu  
Official email is only through college approved links and you must check your student email account often. (I may use the Canvas site email to inform you of changes or special assignments.) Only you may set up forwarding for your email from the WWCC acct to another personal account.

**On-line course information is on the Canvas site. As a registered student in the class you have access to that site.** All added handouts, sample exams, announcements, updated schedules, and other important information is posted on Canvas.

Lecture class time is 9:30-10:20 am Monday through Thursday, rm 204.  
Lab time is 7:30-10:20 am Friday, Rm 227. Please be on time!!

**Required Materials: All for the year long course.**
2. **NEW this year** will be the purchase of an access card to online homework through the publisher, MyLab and Mastering. Email and a separate handout will describe what you will need. The bookstore should have access cards or you may purchase them online.
3. Chem 161 lecture packet containing lecture notes, sample exams, - purchased at the bookstore.
4. Chem 161 Lab manual - purchased at the bookstore.
5. Shatter and splash proof safety goggles and sharpie marking pen - purchased in the bookstore.
6. You will also need to have a non-programmable, scientific calculator.

**DESCRIPTION** Chemistry 161 is the study of the composition, structure, and properties of matter and its changes for students intending on majoring in science and/or engineering. A comprehensive set of laboratory experiments is provided to implement and supplement the topics covered. Each week (in a 10 week quarter) consists of 4 hours of lecture and 3 hours of lab. Lab work is required. Prerequisites: Grade of C or higher in High School Chemistry (1 year) or CHEM&110 or higher and appropriate placement score of grade C or higher in ENGL 087; MATH 078E or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly CHEM 121, General Chemistry I. [NS]

**POLICIES:**  
**Attendance:** Lecture attendance is expected, however I do not take roll. **Attendance in laboratories is required** and, if missed, may not be made up. Lecture attendance and group participation will be extremely important in your success in the class. Lectures will be more beneficial to you if you try to read the chapter before attending class and we can spend our time answering questions rather than me telling you what is in the book.

**Lecture Time:** Please bring the lecture notes to class. Lecture time will be a mix of the instructor talking about topics, problem solving, or group work in class. You are expected to read the chapter ahead of time and be prepared to ask and answer questions. Come to class with your calculator and textbook. It should be emphasized that it is the responsibility of the instructor to assist in the learning process; hence questions regarding the material are always welcome and appropriate.

**Quizzes, Exams and Final:** Exams, quizzes and the final will be a mixture of multiple choice, short answer, and problem solving. Quizzes will count in the other assignment category. Four exams and the fifth/final will have equal weight. The final will be partly comprehensive and I will hand out a list of possible questions before that exam. Students must bring a pencil and eraser. Students should bring a non-programmable calculator to all quizzes and exams. Periodic Tables will be provided. There are NO MAKE-UP EXAMS given. Always contact your instructor as soon as possible if you miss an EXAM. If you have an EXCUSED absence; illness, road conditions, family emergency, the average percentage of your other exams will replace the missed score. Remember, this is only for an excused absence. Typically, only one exam may be replaced during a quarter.
Arrangements for an exam to be taken early may be made for situations where you know you will be gone on an exam day. Examples include a class field trip, or participation in college sports. At least one-week notice is required. **Laboratory:** Laboratory experiments are an essential part of the course and will account for ~20% of your final grade. Your lowest score or ONE missed experiment will be dropped. Other missed experiments count as a zero. Most lab experiments have a pre-lab assignment that must be completed before the lab time begins. They will be checked off as you get into lab. Each lab will begin with a discussion of the experiment. There will be no lab make-up labs scheduled.

**Laboratory Report** sheets and Post Lab Questions may be turned in at the end of the lab period, but they will be DUE the next class day or as listed on the class schedule. Lab Report Sheets and Post Lab Questions turned in later than the next class day must be initialed by the instructor and will be docked points for each class day late. **Laboratory safety** will be covered in detail during the first lab day. If you are not properly dressed, you may not be allowed to work in lab that day.

Most importantly:
- Students must wear closed toe shoes (no sandals). Exposed bellies and shorts are never allowed in lab. No sleeveless shirts.
- Wear safety goggles at all times.
- Food and drink are not allowed in the laboratory at any time.
- Long hair (including long beards) must be tied back whenever your are in the lab.
- If you wear soft contacts talk to the instructor about possible risks.

**Homework, and other assignments:** NEW this year will be online homework through the publisher, MyLab and Mastering. You will need to purchase the access card for the code or sign up online. Email and a separate handout will describe what you will need. Some of the homework points or % will be dropped, to be determined later.

**GRADING POLICY:**

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<td>A'</td>
<td>90.0 – 92.0</td>
<td>B'</td>
<td>88.0 - 90.0</td>
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<td>B</td>
<td>82.0 - 88.0</td>
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<td>80.0 – 82.0</td>
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<td>78.0 - 80.0</td>
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<td>C</td>
<td>70.0 – 78.0</td>
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<td>60.0 - 70.0</td>
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| MyLab and Mastering homework | Separate handout w/ policies | 10 %  |
| other assignments/quizzes    | 10 pts each                   | 3 %   |
| Lab (one/lowest score dropped)| 20 pts/lab                    | 20 %  |
| Exams(four plus final)       | 5 @ 100pts each               | 67 %  |
| **Total**                    | **100 %**                     |       |

The instructor will use the gradebook in Canvas and you may check your grade at any time. Be sure to double check scores periodically to ensure they are correctly entered.

**OTHER SPECIAL INSTRUCTIONS / INFORMATION:** Policies are in the Faculty and Student Handbook. **Expectations:** Students enrolled in this course should come with the expectation that they will work hard but will be able to succeed. Good study and listening skills are essential
- During class as well as lab, **cell phones** should be turned off (or set at vibrate if an emergency call is expected and the instructor has been informed that you may receive such a call.) If you need to check your phone/text/email, please do so during break and step out of the classroom.
- Students are expected to arrive on time.
- Be courteous to others if you are late. Disruptive behavior that interferes with the learning process or presents a safety issue may result in a request to leave the classroom for the rest of the day.
- Children are not allowed to be present in class.
- Students can expect to be treated with respect by other students and the instructor and should behave in a respectful manner in return.
- Students will follow the student code of conduct at all times. The code of conduct can be found in the Student Handbook or on the web at [http://www.wwcc.edu/CMS/fileadmin/PDF/Student_Code_of_Conduct_Revised.pdf](http://www.wwcc.edu/CMS/fileadmin/PDF/Student_Code_of_Conduct_Revised.pdf)
You may expect to spend 10-15 hrs/week outside of class time reading, doing problems/questions, and studying for exams. Problem solving is essential to learning Chemistry. Prepare for class by reading the chapter before the lecture. Stay up to date on your studying. LISTEN.

The instructor is expected to assist in the learning process, meet the course goals, keep students periodically informed of their progress, be available for questions and advice, maintain a safe learning environment, and return assignments in a timely fashion.

RESOURCES
Teaching and Learning Center: Room 244- Tutoring is available for science and math courses. Please check their schedule.
Web Resources: Extra handouts, and other important information is posted on the Canvas site. Please check it regularly. Other web sites may be useful or not. Use your time effectively.
Disability Services: If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Disabilities Coordinator in the Student Development Center, 527-4258, as early as possible in the quarter.

Notes
Bring your goggles, lab manual, and a calculator to lab each week. If you are not dressed appropriately (closed-toe shoes, long pants/skirt, shirt with at least short sleeves, etc.), you will be asked to leave the lab.

Important Dates:
Sept. 26, 2014 Last day to drop with a 100% refund.
Oct. 10, 2014 Last day to drop with a 40% refund for total withdrawal.
Nov. 11, 2014 Veteran’s Day Holiday
Nov. 7, 2014 Last day to drop.
Nov. 19, 2014 Advising day-WE will have class
Nov. 24-28, 2014 Thanksgiving Holiday, no class that entire week.

Assessment-Homework, tests and in-class assignments will be based on your ability to demonstrate Critical Thinking/Problem Solving skills
There are three categories of “problems” found in Chemistry 161. Each type emphasizes different abilities and therefore must be assessed differently.

1. Basic Knowledge Problems-(Critical Thinking/Communication) These questions address the facts and language of Chemistry. Chemical symbols, nomenclature, physical and chemical property data, etc. Basic knowledge will be assessed by true/false and multiple choice questions gauging your ability to remember this knowledge.
2. Number “Crunching” and Formula plug-in Problems-(Critical Thinking) this type of question concerns conversions and calculations from given quantities to desired quantities. Assessment will be based on your ability to demonstrate the following.
   Are you able to:
   a. restate the problem identifying the desired quantity and the starting quantity
   b. determine and write down any other information that is required
   c. devise and write down a “path” to follow to solve the problem
   d. can you follow your path to solve the problem correctly with proper units and precision
3. Explanations Problems- (Critical Thinking/Communication) These questions ask you to use your accumulated chemical knowledge to explain chemical trends and processes.
   Are you able to:
   a. restate the problem identifying what is desired
   b. examine evidence and assumptions
   c. draw reasonable conclusions based on correlational and/or cause/effect relationships
   d. express your response in a coherent, descriptive, grammatically correct statement