

CHM152: General Chemistry II, Section 56799

SYLLABUS

INSTRUCTOR: Steve Borick, Ph.D.

OFFICE LOCATION: Natural Sciences Building, Room NS127

OFFICE HOURS: MTWThF 10:30 a – 11:30 a or anytime I'm around (if my door is open, I'm around – please knock)

OFFICE PHONE: (480) 423-6372

EMAIL ADDRESS: steve.borick@sccmail.maricopa.edu

INSTRUCTOR WEBPAGE: www.scottsdalecc.edu/chemistry/steve_borick.html

COURSE MEETING TIME: Tuesday and Thursday 12:00 p – 1:15 p in Room LS119S

MATH SCIENCE CENTER: 8 a-7:30 p M-R; 8 a -2 p F; 10 a -2 p Sat CM441A (480) 423-6145 phone

COURSE DESCRIPTION: A study of the chemical properties of the major groups of elements, equilibrium theory, thermodynamics, electrochemistry, and other selected topics. Prerequisites: CHM150 or CHM151 and CHM151LL. Completion of CHM150 or CHM151 and CHM151LL within the last two years recommended.

WEEKLY SCHEDULE (TENTATIVE):

WEEK	DATE	TOPIC	CHAPTER
1	8/25	Kinetics	13
2	9/1	Kinetics	13
3	9/8	Chemical Equilibrium	14
4	9/15	Chemical Equilibrium; Exam I (Chapters 13 and 14) – 9/17	14
5	9/22	Acids and Bases	15
6	9/29	“ “	15
10/2 LAST DAY TO WITHDRAW WITHOUT MY SIGNATURE			
7	10/6	Acids and Bases; Aqueous Solutions	15,16
8	10/13	Aqueous Solutions	16
9	10/20	Spontaneity, Entropy, Free Energy; Exam II (Chapters 15 and 16) – 10/22	17
10	10/27	Entropy and Free Energy	17
11	11/3	Electrochemistry	18
12	11/10	Electrochemistry	18
13	11/17	Electrochemistry	18
14	11/24	Transition Metal Chemistry; Exam III (Chapters 17 and 18) – 11/24	24
11/26 THANKSGIVING DAY – NO CLASSES			
11/30 LAST DAY FOR STUDENT INITIATED WITHDRAWAL			
15	12/1	Transition Metals; Nuclear Chemistry	24,19
16	12/8	Nuclear Chemistry	19
	12/16	Comprehensive Final Exam – Tuesday, 12/15, 11:30 a – 1:20 p in LS119S	

TEXTBOOK AND REQUIRED TOOLS OR SUPPLIES:

1. *Chemistry: A Molecular Approach*, Nivaldo J. Tro, Pearson/Prentice Hall, 2008. We will provide you with a copy of the textbook for you to use during the semester. You will return the book to the Chemistry department at the end of the semester.
2. Scientific Calculator

GRADING PLAN:

Examination dates are not set in stone. Each exam is worth 100 points, and the final is worth 200 points. In addition, daily homework or quizzes or both will account for 100 points. Late homework is not accepted. I will grade on a straight scale, with no curve, though I may curve individual exams. Tentative letter designations are as follows:

Letter Grade	Range
A	88.0 – 100%
B	78.0 – 87.9%
C	60.0 – 77.9%
D	50.0 – 59.9%
F	Less than 50%

One more thing: you must pass a nomenclature test with at least 16 out of 20 to receive a **letter grade** for the course. If you do not pass the test **before** the end of the semester, you will not pass the class.

And another thing: occasionally I will offer extra credit assignments, which I suggest that you attempt and try to do correctly. At the end of the semester, you will be sorry if you're 5 points away from the grade you want and you haven't done the assigned extra credit.

SPECIAL NEEDS:

If you have special needs or disabilities, contact Disability Resources and Services in the Student Center at (480) 423-6517.

ATTENDANCE:

Regular attendance is required to pass this class. It is in your best interest to attend all classes. If you miss more than 3 class periods with no valid excuse, I have the option to withdraw you (with grade of W or Y, depending). If you miss an exam and I don't hear from you with a valid excuse within 3 days, you get 0% for that exam and I may withdraw you (with grade of W or Y, depending). I am not inclined to give make-ups on quizzes or exams, unless you have a valid excuse with written documentation or you have spoken with me beforehand. **There are 2 ways to avoid receiving an F or a Y in this class: you can score higher than 50% on all the classwork, or you can drop the class by completing the necessary paperwork and obtaining signatures, if needed, by the dates listed in the paragraph below. Whichever way you choose, the RESPONSIBILITY IS ALL YOURS.**

One more thing: if I see you sending text messages in class, I may ask you to leave.

WITHDRAWAL:

College withdrawal policy states:

- On or before **October 2**, withdrawal grade is "W" and no signature is required
- After October 2 but on or **before November 30**, withdrawal grade is "W" if you're passing or "Y" if you're failing (the "Y" option will take effect on October 30, after the 2nd exam has been graded and returned)
- **After November 30**, withdrawal with a "W" is discretionary and highly unlikely

LABORATORY:

Laboratory and lecture are separate courses. Withdrawal from both requires separate forms. You may not drop the lecture and retain the lab unless you have completed at least $\frac{3}{4}$ of the lecture course. Completion of the lecture means regular attendance (no more than 3 unexcused absences) and completion of all classwork.

SCC STATEMENT OF CLASSROOM ETIQUETTE AND EXPECTATIONS:

To establish a positive learning environment for this class: as an instructor, I am expected to be professional, courteous, respectful, and empathetic to students, and to

1. Begin and end class on time
2. Be prepared for each class session
3. Provide academic feedback and grade assignments in a timely manner
4. Be available for individual consultation
5. Clarify assignments and inform students of any changes in course requirements or policies

As a student, you are expected to be reflective, courteous, respectful, and empathetic to classmates, instructor, and other College staff assisting you in your learning, and to

1. Be in class and be on time
2. Be prepared for class sessions
3. Participate in class activities
4. Follow instructions and complete assignments
5. Keep up with and turn in assignments by the due dates
6. Put forth your best effort
7. Ask questions when you don't understand
8. Maintain knowledge of your grade status
9. Contact instructor right away about concerns or situations that interfere with your success in the class
10. Comply with policies found in College catalog and student handbook

SCC TWITTER ADDRESS:



Keep up with all the important SCC news at <http://twitter.com/sccnewsdesk>

FINAL THOUGHTS:

The material in CHM 152 is really neat, and like many good things, it will take some effort on your part to understand and appreciate it. I urge you to work on the suggested problems and class exercises. I'll do everything I can to help make the course interesting, enjoyable, and truly educational.