

CHE 102-001 Syllabus
Spring 2009
MWF 9-9:50a.m. SC 305

Instructor: Gwen M. Fields Office: SC 442 Phone: 572-6681
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****This class does NOT fulfill the general studies science requirement****

Prerequisite: Minimal score of 18 in math on the ACT or MAT095.

Required Text: *Introductory Chemistry*, custom edition with Student Access Kit for Mastering Chemistry, Nivaldo J. Tro

****You will also need a nonprogrammable scientific calculator to use during quizzes and tests.****

Course Description: Chemistry 102 is a class for students who did not study chemistry in high school or are not prepared for Chemistry 115 (Physiological Chemistry) or Chemistry 120 (General Chemistry I). Selected essential topics in chemistry, including solutions, reactions, stoichiometry and properties of solids, liquids and gases will be investigated.

Student Learning Outcomes:

At the end of the course students will:

- Demonstrate the use of unit analysis in the solving of chemical based story problems
- Describe basic types of chemical reactions and their products
- Exhibit understanding in the basic use of mathematics and the concepts such as moles to comprehend chemical interactions

Important Dates:

| | |
|------------|---|
| January 12 | First day of classes |
| January 19 | Martin Luther King, Jr.-no class-Monday |
| March 9-14 | Spring Break – No Classes |
| March 30 | Monday-Last day to withdraw |
| May 1 | Last day of class |
| May 4 | Final exam- Monday 8-10a.m. |

Grading

| | | |
|--------------------------------|---------|-----|
| Homework / Mastering Chemistry | 80 pts. | 11% |
| Quizzes | 80 pts. | 11% |
| Tests 4 x 100 | 400 pts | 56% |
| Final exam | 150 pts | 22% |

Total 710 pts.

Grading Scale

| | | |
|---|---------|--------------|
| A | 90-100% | 636-710 pts. |
| B | 80-89% | 565-635 pts. |
| C | 70-79% | 494-564 pts. |
| D | 60-69% | 423-493 pts. |
| F | ≤ 59% | ≤ 423 pts. |

Material that will be covered in text:

| <u>Chap.</u> | <u>Sections to skip</u> | <u>Problems to work</u> |
|--------------|-------------------------|---|
| 1 | none | 1-18 |
| 2 | none | 1-28, odds 29-67, 69a-c, 71-73, 77a,c, 79-85, 89-115 |
| 3 | 3.11, 3.12 | 1-24, 27, 28, odds 29-47, 59-69 |
| 4 | | 1-28, odds 29-37, 43-73, 75a,b,d, 77-95 |
| 9 | 9.1 thru 9.4 | 6, 15, 17, 18, 21-30, odds 39-99 |
| 5 | none | 1-20, 22 odds 23-49, 51a,c, 53, 55, 57c,d, 59b-d, 65a-d,f, 67-71, 73b-d, 75a,b, 77-85, 89a-d, 91a,c,d, 95, 99 |
| 10 | 10.7 | 1-14, 26, odds 25-59, 79- 85, 91 |
| 6 | 6.8 and 6.9 | 1-12, odds 17-61, 65-81, 99, 101 |
| 7 | 7.10 | 1-23, odds 29-35, 37a,b,d, 39-45, 49-65, 67a,b,d, 69-75, 81, 83a,b, 85a |
| 8 | none | 1-12, odds 17-63 |
| 13 | 13.8 thru 13.10 | 1-18, odds 25-85, 105, 107 |
| 14 | 14.6 and 14.11 | 1-16, 19-28, odds 33-47, 57-87, 101-107 |

** Some assignments will be given by computer so you will need access to one.*

Important Information Regarding The Class:

Assigned problems and readings from the text will not be collected, however it is strongly recommended that you do them in order to gain a good grasp of the material. Some of the quiz and test questions may come from the assigned questions. The answers to odd numbered text problems are in the back of the book beginning on p. A-1.

Attendance will be taken, but will not count towards your grade, however material such as demonstrations and videos which are not in the text may be presented in class and students are held responsible for knowing this material. Also, dates for homework assignments and tests will be announced in the lecture. A student is responsible for any material and announcements made in the lecture.

Homework will be assigned other than the end of chapter problems. The homework will be given either as Blackboard assignments, as a handout given in class, or an online Mastering Chemistry assignment. The dates on which a homework is given will be announced in class, as well as when the assignment is due. You will also be able to check on Blackboard each day in the announcement section to see if homework has or will be given. The homework must be turned in at the beginning of the class on or before the due date. Late homework will not be accepted. There are no make-ups for late or missed homework assignments for any reason. The lowest homework grade will be dropped so if you miss one homework it will be your dropped grade and any other late or missed assignments will be given a grade of zero.

Quizzes will be given about once a week throughout the semester. These will mainly be worth 10 points each. A total of 100 quiz points will be given, but only 80 of the points will count towards your grade. This means that you could miss 2 quizzes without being penalized. Therefore, there are **NO MAKE-UPS** for a missed quiz. If you miss more than 2, you will receive zeroes for those missed. If however, you earn more than 80 points, you may keep up to 10 of them as bonus points. This is incentive to attend class.

4 Tests and one cumulative final exam will be given. The dates for each will be announced in lecture one week in advance. If a student misses a test, he or she must get in contact with the instructor within 24 hours after the start of the scheduled exam. This means speaking directly to the instructor, not by e-mail and not just leaving a phone message. If I am not in my office when you call, leave your phone number so I can call you back. I must hear from you by 2:00 p.m. on the day of the missed exam. If I do NOT return your call by 2:15 p.m. that day, assume that I did not receive your message and call back. The situation will then be discussed and a retake may be given on or before the next class period. If for some reason that is not possible, the final exam will be counted 1 and 2/3 times, at the discretion of the instructor. There will be no more than one make-up exam for the semester.

Tentative Test Outline

Test 1 CH. 1 thru 4.6

Test 2 CH 9, 4.7, 5, 10.1-10.4

Test 3 CH 6 thru 8

Test 4 CH 10.5-10.8, 13 and 14

Blackboard, an online system reached through the NKU website will be used for the class. Each day after class I will post a new announcement which will tell you what has been covered in class that day, and when homework assignments and exams will be given. There will also be a few homework assignments that you will do online through this same system. As with any computer system, there are occasional glitches. For this reason, do not wait until the last possible minute to do a homework assignment or you may not get it turned in on time.

Helpful Hints

- I cannot stress enough how important it is to work as many problems as possible. Be sure to at least keep up with, if not ahead in the readings in the text. If there are items that you miss on a quiz or test, go back and rework the quiz before the next test and be sure you understand any troublesome material on a test before we proceed to the next chapter. One big problem some students have is allowing the material to snowball on them. This material heavily builds upon itself as we proceed from one chapter to the next. If you are having a trouble area get it cleared up immediately, don't assume that as the test passes you'll never have to recall that item again. There are several things you can do for assistance. I strongly encourage you to ask questions in class. You can be assured that at least five other people have the same question but are too timid to speak out. Once one person starts a question others get more courageous and we'll form a more productive learning group. You must remember that from my point of view, if no one asks any questions I have to assume that you understand everything.

-Aside from asking in class, you can attend my office hours to get some one-on-one questions answered. There is also a **free tutoring program** set up in FH209. You can stop in or call them at 859-572-5475 to get set-up on Tutor Trac, a service which provides the names of students who are available as tutors for this class. Don't wait until you are overwhelmed to get help. Some people start off with a tutor at the beginning of the semester as a maintenance program.

Also, tutors become scarce as the semester progresses.

Honor Code: Students are expected to conform to the Student Honor Code (<http://www.nku.edu/~deanstudents/HonorCode.htm>). Cheating will not be tolerated. In accordance with the Code of Student Rights and Responsibilities, faculty members have the right to determine actions to be taken when a student is caught cheating.

Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit the Disability Services website at www.nku.edu/~disability/.

- Faculty members reserve the right to dismiss or to have removed a disruptive student from their classrooms.
- Students are responsible for reading and understanding all items on the syllabi. Any items not understood must be brought to the attention of the instructor within the first two weeks of class.

-This syllabus is subject to change.