

General Chemistry F105X 4.0 Credits
Summer Semester 2008

Instructor: Michael Jaramillo
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Laboratory: Reichardt 143
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Class Meetings: M-F, 10:00 AM – 11:30 AM, REIC 202
Office Hours: MTW, 11:30 AM – 12:30 PM, REIC 170

Prerequisites: Successful completion of high school chemistry or Basic General Chemistry F103X; and successful completion of high school algebra. If you do not have the prerequisites, please drop out of General Chemistry F105X immediately. Taking Basic General Chemistry F103X will prepare you for Chemistry 105X.

In the first week of laboratory meeting, a multiple choice placement examination will be given. This exam does NOT count toward your grade. You will be given 45 minutes to answer 44 questions. The purpose of this exam is to help the student decide if he or she should remain in Chemistry F105X or drop out and take Chemistry F103X instead.

Course Readings/ Materials: The required text book is “Chemistry & Chemical Reactivity” 6th Ed.; J. C. Kotz, P. M. Treichel, and G. C. Weaver; Thomson- Brooks/ Cole; 2006. You do NOT need a radio frequency, hand- held clicker or an OWL PIN card. The lab manual for the course, “Experiments in General Chemistry 105: A Laboratory Manual”, will be handed out in lab. A recommended solutions manual and recommended study guide are sold separately at the UAF Book Store.

Course Overview: General Chemistry F105X is the first semester of a two- semester series in general chemistry which will cover a wide variety of microscopic and macroscopic chemical phenomena. Successful completion of this course is required to continue on to Chemistry F106X.

This course will cover chapters 1- 12 of the Kotz text according to the schedule attached to this syllabus. The topics covered in this course include (1) making scientific measurements, (2) Atomic Theory and atomic structure, (3) stoichiometry, (4) aqueous chemistry, (5) thermodynamics, (6) Valence Bond Theory and Molecular Orbital Theory, (7) introductory organic chemistry, and (8) the Ideal Gas Law.

General Chemistry F105X satisfies UAF’s Core Curriculum in science.

Expectations of Students: Your regular attendance is expected for this course. Each day BEFORE class, the student should read the portion of the textbook that is assigned on the schedule. With this preparation, the students will be able to better understand the discussion and ask questions about the reading material. Feedback from the students is encouraged and problems will be worked out in class to aid your learning. Please present yourself in a professional manner and be respectful of your classmates. Turn off cell phones and pagers during lecture.

Registration Problems: Some students may have been placed on a waitlist or may wish to change sections. Wait-listed students should attend class and participate like any other student. If someone drops the class, then a wait-listed student can be admitted. Students on a waitlist cannot be guaranteed admittance to this class. For any registration questions or problems, please see Mist D' June Gussak in room 194 M-F from 8:00 AM to 4:00 PM.

Tentative Grade Scale: Letter grades without the +/- indicators will be assigned at the end of the semester. The letter grades are determined as shown in the following table.

Criteria	Max Points
10 quizzes	100
Exam 1	100
Exam 2	100
Final	100
Lab	100
TOTAL	500

%	Letter Grade
90% or greater	A
80%- 89.9%	B
70%-79.9%	C
60%-69.9%	D
Less than 60%	F

Make- Up Policy: Make- up exams and quizzes will be considered on a case- by- case basis. No make- up exams or quizzes will be given out without preapproval.

Quizzes: There will be a total of 10 quizzes given out in the course. They will be worth 10 points each and will cover the reading material assigned for the previous evening. Quizzes should take 10 minutes and will be given at the beginning of class. A minimum of two points will be awarded for attempting the quiz. No quizzes will be dropped.

Exams: Three exams will be given out during the course: two mid- semester exams and one cumulative final exam. There will be no dropped exams. If you anticipate an absence, please inform the instructor to make arrangements. If the absence is unexpected, contact the instructor via email or phone ASAP. Don't wait until the next class to inform the instructor.

You are allowed a non- programmable calculator for the exams. Periodic tables and a list of relevant equations and constants will be provided.

Recitation: Practice problems will be given at the end of each lecture. There will be a weekly question and answer session that will be given on a day and time that will be agreed upon on the first day of instruction. If there is a scheduling conflict, the instructor will also have office hours for 1 hour after class in REIC 170. If you need to meet with the instructor at some other time, please send him an email with a proposed time and date.

Laboratory: A hands- on investigation of the course material will be provided for the students in lab to help solidify the concepts. You will obtain experience in scientific reasoning, experimental design, and use of laboratory chemicals and apparatus. Lab

reports will be handed in each week to be graded and returned to the student by the lab TA.

There will be 9 experiments total, but you will be graded out of your best 8 lab grades. You **MUST** complete 6 labs in order to pass this course. The Safety Lab is the first lab and is **REQUIRED** to stay in the course.

Ethical Considerations: The Chemistry “Department Policy on Cheating” is the following: “Any student caught cheating will be assigned a course grade of F. The student’s academic advisor will be notified of this failing grade and the student will not be allowed to drop the course.”

As a UAF student, you are subject to the UAF’s Honor Code:

“Students will not collaborate on any quizzes, in- class exams, or take- home exams that will contribute to their grade in a course, unless permission is granted by the instructor of the course. Only those materials permitted by the instructor may be used to assist in quizzes and examinations.

Students will not represent the work of others as their own. A student will attribute the source of information not original with himself or herself (direct quotes or paraphrases) in compositions, theses, and other reports. No work submitted for one course may be submitted for credit in another course without the explicit approval of both instructors. Violations of the Honor Code will result in a failing grade for the assignment and, ordinarily, for the course in which the violation occurred. Moreover, violations of the Honor Code may result in suspension or expulsion.”

Disabilities: Students with physical or learning disabilities are required to identify themselves to Mary Matthews in the Disability Services Office, located in the Center for Health and Counseling (474-7043). The student must provide documentation of the disability. Disability Services will notify the instructor of the special arrangements for taking tests, working homework assignments, and doing lab work.

Incompletes: A grade of “incomplete” (I) is assigned only when a student misses the final exam or multiple laboratory classes for a very good reason, such as a medical problem, a death in the family, etc.

Important Dates: Please keep the following dates in mind.

Last day to drop class and get 100% refund.....	May 29
Last day to drop class and get 50% refund.....	June 2
Last day for student- and teacher -initiated class withdrawal.....	June 18
Last day of instruction.....	July 1

Date		Tentative Lecture Topic
26-May	M	Holiday
27-May	T	Section 1.1- 1.6
28-May	W	Section 1.7- 1.8, 2.1- 2.6
29-May	Th	Section 2.7-2.8, 3.1-3.3
30-May	F	Section 3.4-3.7
2-Jun	M	Section 4.1-4.5
3-Jun	T	Section 4.6, 5.1-5.4
4-Jun	W	Section 5.5- 5.8
5-Jun	Th	Section 5.9- 5.10, Review
6-Jun	F	Exam 1 Chap. 1- 5
9-Jun	M	Section 6.1- 6.6
10-Jun	T	Section 6.7- 6.9, 7.1- 7.3
11-Jun	W	Section 7.4- 7.7
12-Jun	Th	Section 8.1- 8.4
13-Jun	F	Section 8.5- 8.7
16-Jun	M	Section 9.1- 9.5
17-Jun	T	Section 9.6- 9.9
18-Jun	W	Section 9.10- 9.11, 10.1-10.2
19-Jun	Th	Section 10.3, Review
20-Jun	F	Exam 2 Chap. 6- 10
23-Jun	M	Section 11.1- 11.3
24-Jun	T	Section 11.4- 11.5
25-Jun	W	Section 12.1- 12.3
26-Jun	Th	Section 12.4- 12.6
27-Jun	F	Section 12.7- 12.9
30-Jun	M	Review
1-Jul	T	Final Exam