

GENERAL INFORMATION SHEET

Fundamentals of Analytical Chemistry

Spring 2009 - Section 0647

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Course Description: Fundamentals of Analytical Chemistry is an introductory course in analytical chemistry with a focus on quantitative analytical techniques. Topics covered include statistics, acid-base chemistry, electrochemistry (including potentiometry), and spectroscopy.

Prerequisites: CHEM 1225 or CHEM 1474, or equivalents.

Required Material: *Fundamentals of Analytical Chemistry* (8th ed.) by Skoog et. al., and a 'scientific' hand-held calculator. You will be required to provide your own calculator for all quizzes and tests.

Class Meetings: January 12th to May 4th; 10:00 - 10:50 am MWF in SC 201.

Homework: Homework emphasizing important concepts from the lecture will be assigned periodically. These homework assignments will not be collected, but in most cases will serve as the basis for the material in the quizzes.

Quizzes: Eight quizzes will be given during the semester. The lowest quiz score will be dropped.

Tests: Four examinations (NOT including the final) will be given during the semester. Tests will be about every 3 ½ to 4 weeks.

Make-up Policy: Quizzes and tests may not be made up. In the event you have a conflict with a scheduled quiz or exam, it **may** be possible to take the quiz/exam early. This privilege is entirely up to the discretion of the instructor.

Final: *Two finals will be given; only one will be used to determine your final grade!*

- 1) Tuesday, May 5th, 8 am (ACS standardized final) Your letter grade assigned after this test will be a guaranteed **minimum** for the course. The score on the ACS test will be worth 5% of your overall grade if you *do not* use it as your final - used as your final it will be worth 30% of your grade.
- 2) You may choose to attempt to improve your grade by taking a second final. I have tentatively scheduled this exam for Wednesday, May 6th, at 10 am. This final will **replace** 25% of the ACS Final *if it improves your letter grade*. This test will be divided into four sections that correspond to the four hour exams. Your score for the hour exam will be the greater of your hour exam percentage or 90% of your percentage on the corresponding section on the final.

Attendance: Attendance is required; however, detailed attendance records will not be kept during lecture. Since tests cover the material discussed during the lecture, it is to your advantage to attend all class meetings. If you miss a lecture, you are still responsible for the material covered during that period. As a courtesy to the rest of the class, wireless devices with an audible notification feature (cell phones, pagers, etc.) must be either turned off or set to the 'silent' mode except in the case of an emergency. If you do have a potential imminent emergency situation, please notify the instructor before class of the nature of the emergency and that you will need to have these devices turned on during class. Use of a wireless phone during class in the classroom will not be tolerated without prior instructor approval.

Grading: Your final grade will be based on total percentage, with quizzes accounting for 10%, hour exams for 60%, the ACS Standardized Exam for a minimum of 5%, and the final for 25% of your final grade. The grading scale will be 100-83% (A); 83-70% (B); 70-60% (C); 60-50% (D). A grade of F will be assigned to anyone who has below a 50% OR to anyone caught cheating in this course. I reserve the right to assign a letter grade higher than the given percentages would indicate.

Teaching Philosophy: My belief is that you are an adult, and therefore are ultimately responsible to do what is necessary to succeed in this class; therefore I do not take attendance nor do I collect homework assignments - you are expected to do both of these to help you understand the presented material. I further believe the best learning environment is a relaxed, interactive environment. I rely on feedback from you to help me guide you through areas with which you are having difficulty. From my perspective, a lack of questions over a section of lecture or homework implies understanding, so I encourage questions over areas that you are struggling. I also believe that the class needs to set its own pace for covering the material - this is why there are no 'fixed' test dates. However, there is a certain amount of material that has to be covered, so there is not unlimited flexibility in this pace.

Office Hours: See posted schedule. Hours indicated as 'on campus' I may or may not be available in my office - you are welcome to stop by and check. I will also make appointments for office hours outside the posted hours if necessary.

It is the policy of Cameron University to accommodate students with disabilities, pursuant to federal and state law. Students with disabilities who need classroom accommodations must make their requests by contacting the Office of Student Development at (580) 581-2209, North Shepler Room 314.