

# CHEM 1304: General Chemistry II

J-Term, 2014

January 6–15, 2014

9am to noon, 1pm to 4pm; no class on weekend

Instructor: Professor David Son  
email: [dson@smu.edu](mailto:dson@smu.edu)  
Location: SMU-in-Plano; room location to be determined

Textbook: Chang, **Chemistry**, 11<sup>th</sup> edition

All course communications and documents will be maintained through **Blackboard** (<http://courses.smu.edu>). Most relevant information will be in the “Course Documents” section.

## Learning objectives

The primary objective is for the student to be able to take the specific skills and accomplishments described below and apply, translate, and extrapolate these thought processes to solving problems throughout life. In general, the student will:

- demonstrate basic facility with the methods and approaches of scientific inquiry and problem solving.
- be able to explain how the concepts and findings of science or technology in general, or of particular sciences or technologies, shape our world.

More specifically, the student will be able to:

- Predict the macroscopic properties of solutions.
- Describe the mathematical relationships between chemical kinetics, equilibria, and thermodynamics.
- Mathematically analyze acid-base behavior in titration reactions.
- Predict the feasibility of various redox reactions, and apply this knowledge to everyday systems.
- Explain the basic structural concepts of both small and large (polymeric) organic compounds.
- Understand the chemical nature of radioactivity, and its practical applications.

## Attendance

Attendance at all class sessions is required, and will count approximately 5% toward your overall grade.

## Class format

Due to the time-intensive format of J-Term, several breaks will be scheduled during the day. Furthermore, homework and review sessions will be scheduled during normal class hours.

## Homework

Homework problems will be assigned for each chapter, but you will not be required to turn them in. However, knowing how to do the problems is *essential* to doing well on the exams.

## Grading

Four exams – 100 points each, 400 points total

Attendance – 25 points

TOTAL = 425 points

Exam grades will be curved, based on grade distributions from regular semester classes. For all exams, you are responsible for information given out in class that may not be in the text or lecture outlines. Plus and minus grades will be assigned at the end of the term.

## Class Schedule

Monday, January 6

- Chapter 12
- Chapter 13

Tuesday, January 7

- Chapter 14
- Homework and review

Wednesday, January 8

- *Exam #1 (Chapters 12-14)*
- Chapter 15
- Chapter 16

Thursday, January 9

- Chapter 16
- Homework and review

Friday, January 10

- *Exam #2 (Chapters 15 and 16)*
- Chapter 17
- Chapter 18

Monday, January 13

- Chapter 18
- Homework and review

Tuesday, January 14 (last day to drop and receive a 'W')

- *Exam #3 (Chapters 17 and 18)*

- Chapter 19
- Chapter 24

Wednesday, January 15

- Chapter 24
- Chapter 25
- Homework and review
- *Exam #4 (Chapters 19, 24, and 25)*

### Office hours

I will have no formal office hours. Ample time will be provided during the day to address any questions. Emailed questions during the evening are also welcome.

### Other Information

- Make-up exams will only be given under special circumstances. Social obligations or lack of preparation is not an acceptable excuse for missing an exam.
  - If you miss an exam due to an illness, you will need to provide an Absence from Class Form (see SMU policy below).
  - If you miss an exam due to any other emergency, you will need to sign and submit a written note explaining the circumstances.
  - If you know in advance that you will have to miss at least one day of class, *you should probably not sign up for this class.*
- All students are expected to abide by the SMU Honor Code.

### SMU policies

*Disability Accommodations: Students needing academic accommodations for a disability must first contact Ms. Rebecca Marin, Coordinator, Services for Students with Disabilities (214-768-4557) to verify the disability and establish eligibility for accommodations. They should then schedule an appointment with the professor to make appropriate arrangements. (See University Policy No. 2.4.)*

*Religious Observance: Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence. (See University Policy No. 1.9.)*

*Excused Absences for University Extracurricular Activities: Students participating in an officially sanctioned, scheduled University extracurricular activity should be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor*

*prior to any missed scheduled examination or other missed assignment for making up the work.  
(University Undergraduate Catalogue)*

*SMU Medical Class Excuse Policy: Question: I missed class because I was ill. Can I get a medical excuse? A: We are sorry to hear that you were ill and hope that you take advantage of Memorial Health Center when you have a problem. However, we do not provide medical excuse forms. If you are interested in finding a medical excuse form, you may download [Absence From Class Form](#) (on SMU website). Each of your professors will have his or her own attendance policies. If you are absent for illness, you should talk to your professor about how you might catch up with the material you missed. If you are seriously ill and require hospitalization or an extended absence, talk to your professors and the Office of Student Life to decide how to deal with the interruption in your studies.*