

# Syllabus for Chem 3A, Introduction to General Chemistry

Reedley College  
Instructor: Mrs. Jodi Kawagoe

Section 81015  
Office: PS-81  
Office Hours: by appointment

Fall 1999  
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Class times:	Lecture: T 5:30 pm - 6:45 pm in HUM-59 Th 5:30 pm - 6:45 pm in FEM-4
Texts:	Introductory Chemistry (FlexText) by Peters & Cracolice, 1 <sup>st</sup> edition, 1998
Calculator:	A scientific calculator with exponential notation and logarithms is required. If you have any questions, please contact the instructor.
Holidays:	Thursday, November 11 and Thursday, November 25

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## Course Objectives

Chemistry 3A is an elementary survey course in chemistry including lab work. It is designed to give the student a chemistry background for a wide variety of careers including forestry, nutrition, nursing, physical therapy, and other biological and health related fields.

## Drop Date

The drop date is Friday, October 15, 1999. After that date the instructor is required to assign a letter grade that will appear on your transcript. If you plan to drop the class, you should do so yourself. Do not depend on the instructor to drop you because of nonattendance. Students with an F average or poor attendance record at the drop date should discuss their status with the instructor; the instructor may drop such students.

## Success in Chemistry

To be successful in this class you will need to study at least 6 hours each week outside of the classroom. This time will include reading, studying, and preparing homework assignments. Preparing labs will require additional time. It is essential that you listen effectively and that you take good lecture notes in class. Taking notes in this class is not only mandatory but also required to know what topics are emphasized and what will be covered on quizzes and exams. Read the assigned material before coming to class and be prepared to ask questions during the lecture. Chemistry is a cumulative subject; later topics require a good understanding of the earlier material. It is essential that you not fall behind in your work.

## Attendance

Attendance in lecture is mandatory. A student may be dropped for poor attendance in lecture without prior consent of the instructor. ALWAYS inform the instructor ahead of time if you have to miss a quiz or exam. Without prior notification your grade is a zero for a "no show."

Tardiness, leaving early and sleeping during lecture or lab sessions are considered disruptive behavior and are punished with an absence.

## What to bring to class

To each class meeting, bring your textbook, paper for taking notes, pen or pencil, and your calculator. Please turn off cell phones and pagers. They are disruptive to the whole class.

## Homework

Homework will be assigned each class period. It is essential to your success in this class that you do all the assigned homework. Homework will be collected each Tuesday and selected problems will be graded. The lowest homework score for the semester will be dropped. **No late homework will be accepted.** Students unable to attend class may (1) send their homework to class with another student; (2) mail it to the instructor care of Reedley College (must be postmarked by the due date); or (3) leave it in the instructor's mail box in the administration building (must be in the box by 5:30 pm on the due date).

#### Directions for homework

1. Use lined, white notebook paper (not from a spiral notebook, please).
2. Write your name, Chem 3A, assignment and the due date on the top of the first page.
3. Answer all parts of a problem giving an explanation if requested. Use proper English.
4. Show all work neatly and legibly in blue or black ink. Unreadable work is incorrect.
5. Problems should be numbered correctly and be done in numerical order leaving a space between each problem.
6. Errors should be crossed out with a single line and the correction written nearby.
7. Multiple pages should be stapled together in the upper left corner.

#### Quizzes

Brief quizzes will be given at the beginning of class each Thursday. There will be no makeup quizzes. The lowest quiz score for the semester will be dropped.

#### Exams

Four exams will be given plus a cumulative final exam. No exam scores will be dropped, and no makeup exams will be allowed unless you have prior permission and supply **verifiable** written proof of your excuse.

Exam 1 Th 9/9

Exam 2 Th 10/7

Exam 3 Th 11/4

Exam 4 T 12/7

Final T 12/14 6:00 - 8:00 pm in HUM-59

#### Grading

The **grading scale** will be based on a straight percentage:

A = 100% - 90%

B = 89% - 80%

C = 79% - 70%

D = 69% - 60%

F = 59% - 0%

The final grade will be calculated as follows:

Average of exams 40%

Final exam 15%

Average of quizzes 10%

Average of homework 10%

Grade from lab instructor 25%

No one who fails the lab portion of this course will receive a grade higher than a D.

#### Academic Dishonesty

Cheating is one of the worst things you can do in college. **The penalty for cheating is a zero for that assignment or exam.** Any caught cheating will have to schedule a meeting with the instructor to discuss penalties for further cheating. In addition to the point penalty, cheating may be reflected on your academic record, you may be dropped from the class, or you may be banned from Reedley College.

**I encourage you to work with each other on homework.** However, homework must reflect individuality in order to receive credit. Allowing someone to copy your work is also punishable as cheating.

## Lecture Schedule for Chem 3A, Reedley College, Fall 1999

Note: The instructor reserves the right to change this schedule at any time.

Week of	Topic(s)
Aug. 16	Unit 1: Introduction to Chemistry/Unit M: Matter and Energy
Aug. 23	Unit M: Matter and Energy/Unit C: Measurement and Chemical Calculations
Aug. 30	Unit C: Measurement and Chemical Calculations/Unit G: The Gas Laws
Sept. 6	Unit A: Atomic Theory: The Nuclear Model of the Atom/Exam 1
Sept. 13	Unit N: Chemical Nomenclature/Unit F: Chemical Formula Problems
Sept. 20	Unit F: Chemical Formula Problems/Unit R: Reactions and Equations
Sept. 27	Unit H: Quantity Relationships in Chemical Reactions
Oct. 4	Unit S: Solutions/Exam 2
Oct. 11	Unit S: Solutions/Unit Q: Atomic Theory: The Quantum Model of the Atom
Oct. 18	Unit Q: Atomic Theory: The Quantum Model of the Atom/Unit B: Chemical Bonding
Oct. 25	Unit D: The Structure and Shape of Molecules/Unit W: Gases, Liquids and Solids
Nov. 1	Unit W: Gases, Liquids and Solids/Exam 3
Nov. 8	Unit I: The Ideal Gas Law and Its Applications/Veterans' Day
Nov. 15	Unit Z: Net Ionic Equations
Nov. 22	Unit P: Acid-Base (Proton-Transfer) Reactions/Thanksgiving Day
Nov. 29	Unit E: Chemical Equilibrium
Dec. 6	Exam 4/Review
Dec. 13	Final Exam

## Homework Assignments for Chem 3A, Reedley College, Fall 1999

Unit	Assigned problems
M	2, 4, 10, 12, 14, 22, 28, 34, 36, 38, 44, 48, 52, 54, 59
C	2, 4, 6, 8, 10, 12, 14, 16, 18, 28, 32, 34, 36, 38, 42, 44, 46, 50, 54, 62, 64, 70, 72, 80, 86, 88, 90
G	10, 12, 15, 20, 22, 23, 30, 32, 34, 38, 40, 42, 45, 50
A	4, 11, 20, 26, 32, 40, 44, 45
N	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58
F	2, 8, 14, 16, 20, 22, 26, 30, 34, 42, 46, 54, 62, 64
R	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38
H	2, 10, 12, 20, 44, 46, 54, 58, 60, 64, 70, 72, 74
S	6, 10, 12, 16, 32, 34, 38, 42, 52, 84, 86, 92, 94, 100, 104
Q	4, 6, 7, 8, 12, 15, 16, 18, 19, 20, 21, 22, 32, 38, 40, 41, 44, 46, 48, 50, 52, 55, 57, 61, 66, 68, 72, 78, 84, 86, 88, 90
B	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40
D	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 28, 30, 32, 34, 36, 38, 40, 42, 44, 48, 50
W	4, 6, 8, 10, 12, 16, 24, 28, 32, 40, 48, 54, 58, 62, 72, 76, 84, 88, 96
I	6, 8, 10, 16, 22, 24, 28, 30, 34, 44
Z	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50
P	To be announced
E	To be announced