Chemistry 3A (0835)
College of the Siskiyous
Instructor: Jenny Jensen, M.S.
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Chemistry 3A: Introduction to Chemistry [4 units]

Lecture	Lab	Office Hours
MW 9:00 – 10:30 am	W 12:00 – 3:00 pm	MWF 10:30 – 11:30 am
		TR 12:00 – 1:00 pm
Life Science 9	Life Science 12	Life Science 13

Chemistry 3A is designed for students transferring into an allied health program. This course will study the basic chemical principles, terminology and the applications to everyday life.

Prerequisites: NONE

Advisory: One year of high school algebra or Math 56 or equivalent with a grade of a "C" or better is strongly advised.

Required Course Materials

1. Text: Fundamentals of General, Organic, and Biological Chemistry 6/E. McMurry et al.
(Study Guide optional)

2. Lab Manual: Introductory Chemistry: Concepts and Connections 5/E. Corwin

3. Lab Materials: Lab safety goggles (indirect vent). Lab coat (provided)

4. Other Materials: Scientific Calculator: log, exponential, non-programmable
ETUDES: https://etudes-ng.fhda.edu/portal

Grading

Homework	100 points (10 pts each)	**A: 90-100%**
Quizzes	90 points (10 pts each - low 2 drop)	**B: 80-89%**
Exams	300 points (100 pts each)	**C: 70-79%**
Lab Reports	195 points (15 pts each)	**D: 50-69%**
Project	115 points	
Final	200 points	Total = 1000 points

Lecture

- This class requires your dedicated time and commitment. Please turn off your cell phones and other electronic devices, otherwise you will be asked to leave the classroom. We will treat each individual with respect and always conduct mature behavior in both the lecture and laboratory.

- Homework will count towards your final grade. Each assignment is worth 10 points, and work must be shown to get full credit. If you complete 80% of the assigned chapters, you will receive full points at the end of the semester. If not your grade will be calculated based on the points completed. Homework is due in lecture on the due date listed on the schedule. Late homework assignments will not be accepted!

- Quizzes (10 points each) will be given AT THE BEGINNING of lab and will consist of closed note, open note, pop, or group quizzes. A zero score will result if you are absent. You can expect 11 quizzes; the lowest two scores will be dropped. No makeup quizzes are given.

- The exams (100 points each) will be taken during lab and may include multiple choice (scantron #882 - provided), fill-in, true/false, problem solving and short answer. No makeup exams are given, expect for dire, documented emergencies!

- The final exam (200 points) will be a cumulative, multiple choice exam. You must take the final in order to pass the course with an A, B, or C. No makeup finals are given.

- The Project (115 points) will be completed with one partner. Most of the information you will need to complete the assignment is provided in lecture and the text. The details regarding this assignment will be provided and discussed as we continue through the semester.

- Extra credit (25 points) will be assigned and discussed during the semester.

Laboratory

- Please see the laboratory handouts

OBVIOUSLY CHEATING IS NEVER TOLERATED! IF CAUGHT CHEATING OR PLEGARIZING AN AUTOMATIC ZERO SCORE WILL BE GIVEN ON THE PARTICULAR ASSIGNMENT. PLEASE SEE THE STUDENT HANDBOOK.

Student Learning Outcomes

1. Understand the scientific process and its place in our culture.

2. Apply concepts learned in this class to set up and solve problems requiring chemical knowledge in chemistry, other courses, on the job or at home.

3. Evaluate materials quoting scientific applications as to the validity of their conclusions.

4. Think in such a way as to visualize what is happening chemically in a given situation.

5. Apply what is learned to the current technological aspects of our culture in order to become a better informed citizen and consumer.

6. Safely work in lab using correct techniques, appropriate measurements, and data analysis to reach a conclusion.

College of the Siskiyous Resources

- Counseling and Advising: 938-5353
- Disabled Student Services and Programs: 938-5297, Eddy Hall 1
- Library: 938-5331
- Computer Lab: 938-5324
- MESA: 938-5272, Life Science 7

College Holidays

Sep 7 – Labor Day
Oct 9 – Campus Planning Day
Nov 11 – Veterans Day
Nov 26-27 – Thanksgiving

Other

- If you have any disabilities that may affect your ability to fully participate please notify me within the first 2 weeks of class and bring written verification from the appropriate program

- Please feel free to ask questions and meet with me during office hours. If you cannot meet during office hours we can schedule another time

- The instructor reserves the right to change the information provided in this syllabus and schedule

Schedule (tentative) Chemistry 3A, MW

Lecture: MW 9:00 – 10:30 pm
Lab: W 12:00 – 3:00 pm

Week	Date	Lecture	Lab	Important
1	Aug 17 Aug 19	Ch 1. Matter and Life	Introduction and Safety	
2	Aug 24 Aug 26	Ch 2. Measurements in Chemistry	Check in and 1. Introduction to Chemistry	HW 1 / Quiz 1
3	Aug 31 Sep 2	Ch 3. Atoms	2. Instrumental Measurements	Quiz 2
4	Sep 7 Sep 9	**HOLIDAY**	3. Densities of Liquids and Solids	HW 2 / Quiz 3
5	Sep 14 Sep 16	Ch 4. Ionic Compounds	**EXAM 1**	HW 3
6	Sep 21 Sep 23	Ch 5. Molecular Compounds	6. Atomic Fingerprints 7. Families of Elements	Quiz 4
7	Sep 28 Sep 30	Ch 6. Chem Rxns	18. Molecular Models	HW 4 / Quiz 5
8	Oct 5 Oct 7		10. Analysis of a Penny	HW 5 / Quiz 6
9	Oct 12 Oct 14		14. Decomposing Baking Soda	Quiz 7
10	Oct 19 Oct 21	Ch 7. Energy and Equilibrium	**EXAM 2**	HW 6
11	Oct 26 Oct 28	Ch 8. Gases	Energy Worksheet	Quiz 8
12	Nov 2 Nov 4		16. Generating Hydrogen Gas	HW 7 / Quiz 9
13	Nov 9 Nov 11	**HOLIDAY** Ch 9. Solutions	21. Electrical Conductivity	Quiz 10
14	Nov 16 Nov 18		**EXAM 3**	HW 8
15	Nov 23 Nov 25	Ch 10. Acids and Bases	20. Analysis of Vinegar	HW 9 / Quiz 11
16	Nov 30 Dec 2		20. Analysis of Vinegar Continued	
17	Dec 7 Dec 9	Ch 11. Nuclear Chemistry	Checkout	HW 10
18	Dec 14 Dec 15 Dec 16 Dec 17	**8:00 – 10:00 am** **FINALS**		

Homework:

Chapter 1	16 – 50 even
Chapter 2	34 – 76 even
Chapter 3	36 – 88 even
Chapter 4	38 – 76 even
Chapter 5	36 – 90 even
Chapter 6	38 – 92 even
Chapter 7	24 – 68 even
Chapter 8	30 – 96 even
Chapter 9	38 – 66, 82 – 88 even
Chapter 10	38 – 80 even
Chapter 11 (Optional)	26 – 58 even

The answers for the homework problems assigned can be found in the back of your textbook. However, you must show your work to get full credit. If your work is not shown, you will not receive credit for your homework.

Grade Keeper

Chemistry 3A, Jensen
Fall 2009, MW

QUIZZES and EXAMS	
Quiz 1	
Quiz 2	
Quiz 3	
Quiz 4	
Quiz 5	
Quiz 6	
Quiz 7	
Quiz 8	
Quiz 9	
Quiz 10	
Quiz 11	
Dropped Quiz	
Dropped Quiz	
Exam 1	
Exam 2	
Exam 3	
Final	

LABS and PROJECT	
Safety	
Intro to Chem	
Instrumental	
Density	
Atomic Finger	
Flame Tests	
Models	
Penny	
Energy	
Baking Soda	
Hydrogen Gas	
Conductivity	
Vinegar	
Project	

HOMEWORK and EXTRA CREDIT	
Chapter 1	
Chapter 2	
Chapter 3	
Chapter 4	
Chapter 5	
Chapter 6	
Chapter 7	
Chapter 8	
Chapter 9	
Chapter 10	
Extra Credit	