

Atoms and Molecules CHEM 101

Instructor: Kim Frederick Phone: ext. 2502
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Course Meeting: Mon, Tues, Thurs 8:00 AM Haberlin 103
Laboratory Either Tues or Wed 1-5 PM Haberlin 213
Office Hours Monday 2-3 PM
Tues, Thurs 9-10 AM
Wednesday 9-11 AM

Basis for Evaluation:

Pre-lab Quizzes	50 pts
Reports	100 pts
Data Sheets	50 pts
Lab Notebook	30 pts
Lab Practicals	30 pts
Biweekly exams	500 pts
Final exam	150 pts

Class Meetings:

We will meet three times per week in an interactive lecture format. Due to the size of the class, I will generally not allow people to come and go during class (i.e. bathroom breaks etc.) Please plan accordingly. It is also critically important to arrive promptly. Students arriving after class has started may not be allowed admittance into the classroom. Because we will be participating together in the learning process, it is in your best interest to come prepared for lecture. During lecture, you will be asked to interact both with your peers and with me. To facilitate effective learning, it is in your best interest to read through the material before coming to class. This will greatly enhance your ability to learn during lecture and thus save you lots of time later.

Help Sessions and Office Hours:

It is very important that you stay on top of the material in this class. If you are confused or unclear about the material, take advantage of every opportunity for extra help. I take my office hours very seriously and want to help you. If you are unable to come to office hours, feel free to call me to make an appointment. In addition, there will be a help session held before each of the exams. You should come prepared with questions as I will be there to help you with things which are unclear, not re-teach the material.

Attendance Policy:

Experience has shown that there is a strong correlation between regular class attendance and high grades. Therefore, attendance is strongly encouraged. If you miss class for any reason, it is your responsibility to get the notes and homework assignments from someone else in the class. I will be glad to review those notes with you during my

office hours for any excused absences. In the case of a pre-arranged excused absence such as a field trip or athletic events, assignments will be due before you leave.

Policies Regarding Academic Dishonesty:

In order for you to truly learn the material in this class, it is critical that you complete your own work in a timely fashion. Being honest about your academic work is the foundation of your education. For this reason, cases of academic dishonesty will be regarded with the utmost seriousness whether this means copying someone else's homework, doctoring lab results, plagiarizing material on lab reports or cheating on an exam as examples. Sanctions will be treated on an individual basis but may range from receiving a zero on an assignment to receiving an F on the course. All instances of cheating will be reported to your Class Dean and put in your file.

Examination Schedule

Exams will be given after every 2 lab periods. The dates of the exams will be:

Sept. 25 Oct. 9 Oct. 30 Nov. 13 Dec. 4

Date	Experiment	Lecture Topics
9/9,10	Measurement	Chapters 1, 2
9/16,17	Gravimetric Analysis of Silver Salts	Chapters 3, 4
9/23,24	Quantitative Aspects of Spectroscopy	Chapters 3, 4
9/30-	Thermochemistry	Chapter 9
10/1	Lab Practical 1	
10/7,8	Atomic Spectroscopy	Chapters 6
10/21,22	Structures of Ionic Compounds	Chapters 8, 11
10/28,29	Synthesis and Analysis of Nickel Compounds	Chapter 3,4
11/4,5	Structures of Covalent Compounds	Chapter 8, 9
11/11,12	The Nature of Ionic and Covalent Compounds in a Solution	Chapters 4, 16
11/18,19	Descriptive Chemistry	Chapters 7, 22
12/2,3	Laboratory Practical	