CHEM 2040G Practical Chemistry

- Description: CHM 2040G is a general-education course which will introduce the basic principles of chemistry, and show how a basic knowledge of chemistry can help to understand/explain the world around us. No previous chemistry experience is assumed.
- Lecture: Mon, Weds, Fri 12:00 p.m. 12:50 p.m. Room 4020 Physical Science Building
- Instructor: Dr. Ed Treadwell Office: 4450 PSB Phone: 581-6229 Email: <u>cfemt@eiu.edu</u> Office Hours: Mon 11:00-11:50 AM, 3:00-4:00 P.M., Weds. 1:00-2:00 P.M.
- Text: *The Extraordinary Chemistry of Ordinary Things, 4th edition* by Synder you will also need a calculator
- Web Page: <u>http://www.ux1.eiu.edu/~cfemt/2040/c2040.html</u> Library folder: 204

Course Policies:

- Attendance: Though attendance will not count towards your grade, this is a lecturebased course and the lecture/discussion in class will help you to understand the material. By missing class you will miss a significant amount of material, and some of the material covered in class cannot be found in the book. If you do have to miss a class, be sure to get the notes from a classmate. I will not provide notes for you. Class attendance will sometimes be taken.
- Exams: Exams will be given during class, and you will have the whole 50 minutes to complete the exam. Make-up exams will only be given in cases of serious illness, emergency, or University-related activities. A written verification from a medical professional or University representative must be presented before a make-up exam will be given, and advance notice of your absence is expected.
- 3. Homework: There are both graded homework problems and suggested homework problems from the textbook that will not be collected, as well as assignments. However, the best way to learn chemistry is to try and apply what you've learned, and homework problems are great tests of your comprehension of the material. Late material will not be accepted under any circumstances. This also pertains to the assignments.
- 4. You are responsible for all announcements made in class, whether you are present or not.
- 5. Writing component: Since this is a general education course, the writing component will be emphasized, and any written material you hand in should be correctly spelled and grammatically correct. Points will be deducted from poor writing or frequent misspellings.
- 6. Disability: If you have a documented disability, please discuss academic accommodations with me as soon as possible.
- Conduct Code: All aspects of the student conduct code are to be followed without any prompting or reminder from the instructor. This includes being prompt, attentive, and nondisruptive during class. Repeated poor classroom conduct and/or ANY instance of dishonesty (cheating, plagiarism) will be reported to the Office of Judicial Affairs.

Point Distribution:

Homework (10 @ 10 pts each)	100 points
Exams (5 @ 50 points each)	250 points
Assignments (5 @ 15 points each)	75 points
Final Exam (60 points)	60 points
Total Points	485 points

Homework:

(21% of total grade)

There will be a total of 13 short homework assignments in the course, given when a chapter is completed and due according to the date on the syllabus. The best ten homework assignments will count towards your final grade, which means you will be able to drop your worst three homework grades if you have done all thirteen. Late homework WILL NOT be accepted.

You are free to, and I encourage to, work on the homework with others. However, the material you turn in must be yours – <u>written by you in your words</u>. Any case of plagiarism (the direct copying of someone else's work) is a violation of the academic code and will be treated accordingly.

Exams:

(52% of total grade)

There are five in-class exams which will cover the material discussed that week. The exams will be part multiple choice, part fill in the blank/matching, and part short answer / problem solving. The best way to prepare for an exam is to read over your notes as well as your homework, and UNDERSTAND the material. MEMORIZATION of the material will most likely **not** earn you a high grade on the exam.

Assignments:

(15% of total grade)

There will be five to six assignments given in the course that will count for 5% of your final grade. Late assignments will not be accepted.

Final Exam:

(12% of total grade)

There is a cumulative final exam, the format of which will resemble that of the five inclass exams. The final exam will cover the key points from each exam throughout the semester.

Assistance:

I want you to do well and learn as much as possible in this course. Please do not hesitate to drop by my office with questions or for help with assignments.

Tentative Class Schedule*

Date	Readings	Suggested Homework	Items Due
Aug. 22	Ch 1 1.1 – 1.3	1.1, 1.2, 1.22	
24	Ch 2 2.4 – 2.6	1.3, 1.6, 1.10, 1.11, 1.18, 1.24	
26	2.7 – 2.9, 2.1 –2.3	2.7, 2.14, 2.18, 2.21, 2.15, 2.17,	
		2.25, 2.1, 2.29a	
29	Appendix A, B		HW 1 due
31	Ch 3 3.4 – 3.7	3.10, 3.13, 3.32	Assign 1 due
Sept. 2	3.8 – 3.11	3.5, 3.18, 3.19, 3.20	
5	No Class		
7	3.12 – 3.16	3.1, 3.11, 3.14-15, 3.21, 3.25	HW 2 due
9	EXAM I (Ch. 1,2, App A, B)		
12	Ch 11 11.3 – 11.6	11.4, 11.14	HW 3 due
14	11.7 – 11.12	11.8, 11.12, 11.23	
16	11.13 – 11.17	11.1, 11.2, 11.10, 11.33	
19	Ch 9 9.1 – 9.4	9.6, 9.14, 9.20, 9.29	HW 4 due
21	9.5 – 9.10	9.18, 9.22	Assign 2 due
23	Ch 10 10.1 – 10.5	10.1, 10.4, 10.6, 10.7, 10.12	
26	10.6 – 10.10	10.19-24, 10.29, 10.38	HW 5 due
28	EXAM II (Ch. 3, 9, 11)		
30	Ch 6 6.1 – 6.4	6.7, 6.10	
Oct. 3	6.5 - 6.9	6.1, 6.2, 6.8 (a-e), 6.39	HW 6 due
5	6.12, 6.13,	6.20	
	Ch 13 13.1 – 13.3	13.5, 13.18	
7	No Class		
10	13.4 – 13.8	13.28	HW 7 due
12	13.9 – 13.13	13.1, 13.2, 13.15, 13.29	
14	Ch 22 22.1 – 22.4	22.11, 22.13, 22.14	
17	22.5 – 22.8	22.20, 22.22, 22.29	HW 8 due
19	EXAM III (Ch. 6, 10, 13)		
21	22.9 – 22.14	22.6, 22.31	
24	Ch 8 8.1 – 8.6	8.4, 8.12, 8.26	HW 9 due
26	8.8 – 8.11	8.5, 8.7, 8.9, 8.19, 8.21, 8.33	
28	8.12 - 8.15	8.1. 8.18. 8.14. 8.38	
31	Ch 15 15.1 – 15.4	15.3. 15.4. 15.7. 15.10. 15.34	HW 10 due
Nov. 2	15.5 – 15.9	15.1. 15.2. 15.18. 15.26	
4	Ch 17 17.1 – 17.6	17.9. 17.10. 17.26	
7	17.7 – 17.11	17.1. 17.3. 17.21. 17.22. 17.35-37	HW 11 due
9	EXAM IV (Ch. 8, 15, 22)		
11	Ch 18 18.1 – 18.5	18.22. 18.5	
14	18.6 – 18.12	18.1. 18.2. 18.8-18.11	HW 12 due
16	Ch 23 23.1 – 23.6	23.9. 23.10	
18	23.7 – 23.11	23.30. 23.31	
21-25	No Class		
28	23.12-23.21	23.36, 23.39	HW 13 due
30	Ch 14 14.1 – 14.6	14.1. 14.3. 14.4. 14.6	
Dec. 2	14.7 – 14.10	,,	
5	EXAM V (Ch 17, 18, 23)	14.36	
7	14.11-14.17	14.14.14.15.14.20.14.31	
9	Review	,,	

FINAL EXAM: Tuesday December 13th 12:30 - 2:30 pm

* though the exact day in which a topic is discussed may change, the exams will be on the days they are shown on the schedule (they will not be moved)