

El Camino College
Fundamentals of Chemistry (Chem20) Fall 2008

Instructor: Dr Vineeta Sachdev

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Lecture: 1153 9:30-11:35am T-Th PHYS 108

Lab: 1153 9:30-12:40pm Fri, CHEM 164

Prerequisite: Mathematics 40 or 41B

Textbook: Timberlake, An Intro to General, Organic, and Biochem, 10th ed.

Lab Manual: Henrickson, et. al., A Lab for General, Organic, and Biochem, 6th ed.

Requirements:

- Calculator with exponential and log capability
- #2 pencil and eraser for exams
- Ball-point pen for lab (non-smearing, non-erasable type)
- Safety goggles, approved type
- Closed shoes for lab.
- No electronic devices in lab. or lecture
- Keep cell phones on 'Silent' mode
- No eating or drinking during lab.

4 exams	325	Range	90-100% = A
Final Exam (cumulative)	125		80-89% = B
Lab Reports/Exercises	140		68-79% = C
Quizzes	70		50-67% = D
Home Work	20		<50%= F
Participation and Attendance	20		
TOTAL possible	700		

Laboratory: You will work independently in the lab. Your participation in the lab is mandatory. Each lab report is due in the next lab meeting. Any late lab report will be marked down one point for each day late. You are required to get my signature on your data sheet after finishing your experiment and before you leave the lab. Under any circumstances, the lab report without my signature will not be graded. Please make sure to attend the lab on time. Any absence or coming late by 15 minutes will get zero points.

Bring the lab manual and a blank copy of all report sheets. Copying or talking or writing something on another student's lab paper is considered cheating, which may result in a zero. For any kind of question you should ask the instructor.

Homework and quizzes: There will be homework assignments and quizzes. Turn in homework before lecture starts. Late homework would receive deductions on points. Quizzes would be given on assigned days.

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Attendance: This course is a combination of lab and lecture and your attendance in both the lab and lecture is mandatory. Be always on time to the lecture and lab. Coming late disturbs the rest of the class and it becomes difficult to catch up. In order to sustain interest mark your calendar for the days you have class and make sure you attend it. If you stop attending the lab and only participate in the lecture, you will fail the course. If you cannot attend the lab or lecture you must notify me in advance and afterwards you must provide me a valid document (note from doctor, invoice for car repair, copy of legal documents, etc.). The best way to reach me is to contact the department or leave a message in my mailbox. You will be excluded from the course if you miss 4 lecture or 3 lab sessions during the whole semester.

Withdrawal policy: It is the student's responsibility to withdraw from the course on time. The instructor is not responsible to withdraw a student from this course, unless based on lack of attendance or participation. To drop, you must checkout of your lab and have a card signed by the stock room.

Examinations: There are four midterm exams at the regular scheduled lecture hours. The three hours of final examination (held during the final week of the fall semester) is comprehensive and includes all the chapters covered during the semester. Missed exams result in a zero except in certain situations. You must contact me by email or phone to discuss the situation.

Here are some tips for making your college experience a success:

- Get involved. Do not just sit on the sidelines.
- Join a study group.
- Take advantage of El Camino college's resources and services.
- Develop an academic plan and follow it.
- Use a daily planner and write down all assignments
- Study two hours for every class.
- See me or email me if you have any question.
- Always take your book and necessary supplies with you in class
- Keep a positive attitude, and know why you are going to college.
- You can accomplish almost anything in life if you take the right approach.
- Give it the best you have got, and life will be forever changed.

Good Luck! Enjoy Your Fall Semester.

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ECC Resources to Help You Succeed in Chemistry 20(and Other Courses)

El Camino College provides many resources and programs outside of this classroom that can help you to succeed in this class, and in other classes. Below are some of the resources that you might find especially helpful.

Counseling: Counselors provide students with academic, vocational, career, and personal support counseling. Academic, vocational, and career counseling through Counseling Services will help you identify and focus on goals and objectives - a significant factor in academic success is having a clearly identified goal and knowledge of what it takes to achieve that goal. Personal support counseling is provided on a short-term basis in Counseling Services, but in greater depth at the Health Center.

Learning Resources Center: TUTORING, and basic skills and other assistance.

Academic Strategies Course: I abed, 20ab, 22ab, 23ab, 25ab, 30ab, 31 ab, 33ab, 35ab, 36ab, 40ab, 100. These courses focus on specific skills areas, such as test taking, study techniques, math anxiety, listening and note-taking, problem solving, writing, thinking skills, vocabulary, spelling, memory techniques, sentence punctuation, and learning resources skills development. Mid-term classes are available.

Special Resources Center: For physically-, visually-, or hearing-impaired, and learning disability students (including dyslexia, ADD and related). Special tutorials, adapted testing assistance, and other services are available to provide academic and related support to students with disabilities. They provide testing to discover possible learning disabilities, and also for determining your study/learning method strengths and weaknesses.

EOP&S Supervised Study: Tutoring and other assistance; only for EOP&S students.

Career Services and Transfer Services - Counseling Services: The Career and Transfer Center offers a wide array of services which help to motivate students and give them a clear idea of what they need to achieve goals. Services include a number of workshops on career areas and issues, transfer options, and information about specific universities.

Student Enhancement Program (SEP) Workshops in Counseling Services: The SEP workshops are actually a three workshop series, two hours each in duration, and are offered throughout the year. Activities in the workshops help students develop a proactive sense of responsibility for their academic performance and generate solutions to problems affecting their academic performance. Students are referred to on- and off-campus services. Workshop participants are encouraged to form "study partnerships" and study groups. Student feedback has been that workshops do make a difference in their classroom attitudes, motivation, personal confidence, and study behavior. Students discuss problems, formulate action plans, engage in exploration of resources, and report back to their group their findings and actions taken.

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LECTURE SCHEDULE (Tentative)

Textbook: Timberlake, An Intro to General, Organic, and Biochem 10th ed.

Week	Day	Date	Lecture Topic
1	T	8/26	Chapter 1 - Measurements
	Th	8/28	Chapter 1 Continued...
2	T	9/2	Chapter 2 – Energy and Matter
	Th	9/4	Chapter 3 - Atoms and Elements
3	T	9/9	Chapter 3 Continued
	Th	9/11	Quiz 1 (on Elements) , Chapter 4 - Compounds and their bonds
4	T	9/16	Chapter 4 Continued...
	Th	9/18	Exam 1 (Chapter 1-3)
5	T	9/23	Chapter 4, Chapter 5 - Chemical Reactions and Quantities
	Th	9/25	Quiz 2 (Chapter 4) , Chapter 5 Continued...
6	T	9/30	Chapter 5 Continued....
	Th	10/2	Quiz 3 (Chapter 5) , Chapter 6 - Gases
7	T	10/7	Chapter 6 Continued
	Th	10/9	Exam II (Chapter 4-6)
8	T	10/14	Chapter 7-Solutions
	Th	10/16	Chapter 7 Continued...
9	T	10/21	Chapter 8 - Acids and Bases
	Th	10/23	Quiz 4 (Chapter 7) , Chapter 8 Continued
10	T	10/28	Chapter 10 - Alkanes
	Th	10/30	Exam III (Chapter 7, 8, 10)
11	T	11/4	Chapter 11 – Unsaturated Hydrocarbons
	Th	11/6	Quiz 5 (Chapter 10,11) , Chapter 12 - Organic Compounds with Oxygen
12	T	11/11	Chapter 13 - Acids, Esters, Amines
	Th	11/13	Chapter 14 - Carbohydrates
13	T	11/18	Quiz 6 (Chapter 12,13) , Chapter 14 Continued...
	Th	11/20	Exam IV (Chapter 11-14)
14	T	11/25	Chapter 15 - Lipids
	Th	11/27	THANKSGIVING
15	T	12/2	Chapter 16 - Amino Acids and Proteins
	Th	12/4	Presentation
16	T	12/9	Quiz 7 (Chapter 15), Review for Final Exam
	TH	12/11	Final Exam (Cumulative)

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LABORATORY SCHEDULE (Tentative)

Lab Manual: Henrickson, Byrd, and Hunter, A Lab for General, Organic, and Biochemistry, 6th ed .

Week	Day	Date	Experiment	Lab Assignment
1	F	8/29		- Safety Video and safety sheet: Students must be present at the safety video to work in the lab. Chapter 1
2	F	9/5		Check-in. Laboratory Burners handout.
3	F	9/12	1	Measurement and Density
4	F	9/19	2	Graphing
5	F	9/26		Nomenclature- Study lab
6	F	10/3	9	Structure of Covalent Molecules
7	F	10/10	6	Simple Chemical Reactions
8	F	10/17	7	Hydrates
9	F	10/24	15	Combined Gas Laws
10	F	10/31	16	Titration
11	F	11/7	18	Structure of Hydrocarbons
12	F	11/14	19	Properties of Hydrocarbons
13	F	11/21	Handout	Organic Functional Groups
14	F	11/28	THANKSGIVING	
15	F	12/5	Handout	Organic Functional Groups
16	F	12/12	25	Detection of Fats, Proteins and Carbohydrates in Food. Check out