

CHEM 71 ORGANIC CHEMISTRY Spring 2008

Total Number of Units: 3 Prerequisite: Chem 70 Hours of Lecture Per Week: 3

Course Instructor: Cliff Gottlieb, Phone: 225-4647. e-mail cgottlieb@shastacollege.edu
web page: <http://www3.shastacollege.edu/chemistry/Cgottlieb> and webCT.

Office Hours: M 9 – 10AM; 1 – 2PM; T W 12– 1PM ; F 9 –10 AM and by at almost any time by appointment to meet your needs in 1412 or in the Science Learning Center, 1626. **Please come and visit**; lots of good stuff happens.

Catalog Course Description: Structure, bonding, nomenclature, isomerism, stereochemistry and physical properties of organic compounds. Reactions and mechanisms of alkanes, alkenes, alkynes, cycloalkanes, arenes, alcohols, organic halides, epoxides, ethers and thiols. Science majors should take a second-semester organic course, CHEM 71, which completes the required two-semester sequence. CHEM 70 A, laboratory course, should be taken concurrently for science majors. Check school of transfer for their requirements.

Governing Principle: I will use a variety of techniques to provide the environment to help you learn about the information, thought processes, and methodologies used in all sciences, particularly chemistry, which will allow you to succeed in this class and future classes. Practical applications will be emphasized. **YOU must WORK for your SUCCESS while we LEARN and have FUN.**

I look at higher education as something more than just asking you to regurgitate facts. I teach students as I do professionals in the private sector. I will illustrate processes of the mind emphasizing thinking and Life Long Learning. I will bring in current events and address relevant issues not in the text. I will show you how to find information on the internet and how to discriminate the reliability of internet sites. I expect students to pay attention and ask thoughtful questions.

Materials for the Class: (The text, the solutions manual, and other materials are available in the Science Learning Center.)

Organic Chemistry, 7th ed. McMurry. Publisher: Thomson- Brooks/Cole

OWL – Online Problems Both the text and OWL are bundled at the Shasta College bookstore ISBN 0495452769

Personal Response System Transmitter (PRS Clickers). New in Bookstore, used for \$10 at Science Learning Center.

Molecular Model Set

The Study Guide and Solutions Manual by Susan McMurry ISBN 0495112682 is optional, not required.

Lecture/Discussion Procedure: You are expected to attend lecture and discussions. If you miss 5 lectures/discussions, you may be dropped from the class unless prior arrangements have been made. Come prepared to ask questions and otherwise participate in class. Participation using PRS clickers will count toward your grade. I will suggest practice problems from the text. I will give quizzes weekly in discussion. Graded homework will be done online using the OWL program. You cannot make up homework and quizzes. You will also be required to use webCT or other online programs which will allow you access to course materials.

Methods of Evaluation/Grading Scale: Each of you has the innate ability to earn an "A". I hope that each of you will **work to achieve** an "A"! **All work must be done in black or blue ink or gray pencil!!**

1. Four exams are 100 points each. No make-up exams are permitted.
2. Final exam is 200 points.
3. Quizzes/assignments will count 10 points each. Expect a quiz in the discussion section each week. No make-ups allowed. Every twelve quizzes/assignments are worth 100 final grade points. It is possible to earn up to 120 points out of 100 points possible. This is like having the opportunity to earn 20 "extra credit" points for every 12 quizzes/assignments. There may be more than 12 quizzes using a pro-rated scale following the above formula.
4. Homework at 5 points for each chapter from chapters 1 – 14 will worth 70 points. Homework will be done online using the webCT or other online program.
5. Classroom participation using the personal response system worth 70 points. Typically 2 points per lecture for 40 lectures so 80 points are possible. Again you can earn up to 10 extra credit points. No make-ups allowed under any circumstances.
6. There may be other required or optional assignments or in class questions worth up to 100 points each.
7. Grades base on the following percentages of the total points: A ≥ 90%; B = 80– 89%; C = 70– 79%; D = 60– 69%; F ≤ 60%

There is **NO EXTRA CREDIT**. **No make-up or LATE exams are allowed unless you have immediate family or personal health or legal emergencies.** Call me as soon as possible, typically the same day, to notify me of your emergency. The arrangement of any "make-up" exam is at the instructor's discretion. If you have health, legal, or sports non-emergencies, you may be able to make arrangements to take an exam, quiz or submit homework early. You must contact me with sufficient lead-time to make arrangements. I do not drop exams. **Keep all graded work!!** Your grades will be available to you on webCT. I will review grades with you just before drop day. Otherwise do not ask me to figure out your grade or I will deduct 5 points from your course total. If

you have any corrections or grade questions about any graded material, you must notify me within one calendar week after the material is returned to the class. No adjustments in grades will be made after this time. I reserve the right to create grading policies to cope with atypical situations. **I do not drop exams, nor offer other extra credit.**

Finally, you probably are aware that only you can get your education--no professor can give you an education. **You are responsible for yourself.** I am responsible to help you help yourself. Your success in this class is a reflection of your effort.

CLASSROOM BEHAVIOR/ETIQUETTE: Come to class on time. In class do not socialize, talk, or engage in any behavior that is unrelated to or distracting from the class. Turn off your cell phones. If you must leave class early, notify me at the beginning of class, sit near the door, and exit quietly. This is a college classroom and you are expected to behave like adults who wish to learn. You will be **warned one time** regarding any inappropriate behavior. Upon any further inappropriate behavior, I will ask you to leave class, deduct 20 points from your course grade and you will have to meet with me before returning to class. A third infraction will cause me to deduct 500 points from your final grade.

ACADEMIC HONESTY: DON'T CHEAT! I will not tolerate cheating which I define to include the one who knowingly gives as well as the one who receives. All work is to be done and submitted individually unless I explicitly say differently. Do not copy others' work. Do not use any one else's clicker. The penalty for the first offense is a 500-point deduction from your grade and you will no longer be allowed to attend class. If you have concerns regarding academic honesty, or any aspect of cheating, please see me.

COURSE TIPS:

Welcome to the only upper division course offered at Shasta College. This course is the big leagues. The drop rate at UC-Davis approaches 50% in this course. But this high of a drop rate is due to not doing homework daily and trying to cram for quizzes and exams. Now I hope and plan that not to be the case here, but that is really up to each one of you individually. However you will have to work hard at this course. Plan on spending a MINIMUM of 6 hours of work outside of class each week and if you want to earn an "A", plan on more hours. There is also a high probability you will need to change the way you have been studying for college courses. Cramming and trying to memorize everything just won't work in this course.

Because over 10 million organic compounds exist, memorizing the structure, properties, and reactivity of all of them would be almost impossible. Luckily, a few fundamental ideas underlie all organic reactions. By **understanding** these themes and trends (*not by memorizing them!*), you should be able to rationalize unfamiliar reactions and mechanisms through analogy.

Understanding organic chemistry requires a regular program of **active studying**. No substitution exists for using a pencil and paper to draw and redraw structures, write reactions, and explore stereochemistry. Attend all the lectures and recitation sessions. Read the suggested reading material before each lecture and write down the main points. After each lecture, summarize the major ideas and concepts in your notes within 24 hours of the class. Supplement these notes with material learned by reading the textbook. When you think you understand the material, do the suggested problems. If you cannot complete the problems without referencing your notes or the textbook, put them down and study the concepts again. **Master the material from the previous lecture before going to the next one.** Finally, spend a few minutes each day in review. If you fail to do this, you may find your review could become overwhelmed by what seems like an unreasonable amount of material. **You cannot cram for an organic exam!**

Tentative Lecture: I reserve the right to modify this schedule, as I deem necessary.

Week of	Chapter	Week of	Chapter
1/14	15	3/17	22
1/21	16	3/31	23
1/28	17	4/7	24
2/4	18	4/14	exam 3 & 25
2/11	exam 1 & 19	4/21	25 & 26
2/18	19	4/28	26 & 27
2/25	20	5/5	27 & 28
3/3	21	5/12	28 & exam 4
3/10	21& exam 2	5/19	Final Exam 5/19 10:30AM

SCIENCE LEARNING CENTER

Room 1626

The Science Learning Center offers a comfortable study environment and a variety of resources to assist students in any of the Science classes. There are computer programs and filmstrips that cover specific topics, old tests to look at, microscopes and slides to use and tutors to offer help.

Tutors can help you to initiate good study habits and procedures to maximize your study time. They can also help to clarify any confusing concepts. The tutoring is free and is done by students who have already successfully completed the course, often with the same instructor. When there is interest, we run study groups that are led by tutors.

OTHER RESOURCES AVAILABLE

XEROX MACHINE A copy machine is available in the computer area of the Learning Center for .10 per copy.

COFFEE CLUB Coffee is always brewing for Coffee Club Members. To join, there is a 4.50 per month charge or pay .50 by the cup. Occasionally, there is also Hot Chocolate for .15 per packet. Such a deal!

OFFICE SUPPLIES For your use, we have a paper cutter, stapler, scissors, and tape. Colored pencils are also available.

STUDYING IN THE SLC There are three different study environments available

GENERAL AREA This is a quiet area with plenty of room to spread out.

STUDY GROUP AREA We have a special area, separated from the rest of the Center by a partition, where groups like to study together.

SILENT AREA For those students who don't like distraction but want to make use of the Learning Center, this is a perfect spot. It is not quiet, but SILENT.

The SCIENCE LEARNING CENTER is a friendly, helpful, encouraging environment which can become your home away from home.

ADDING A CLASS

Students may add a full-term class through the fourth week of the term.* After the first two class meetings, approval of the instructor is required to add the class, which includes both the signature of the instructor and the first date of attendance. **IT IS THE STUDENT'S RESPONSIBILITY** to pick up the form from the Admissions and Records Office and take it to the instructor for approval. The student must then return the form to the Admissions and Records Office or Extended Education Center for processing before the add is finalized.

DROPPING A CLASS WITHOUT RECORD

Students may drop a class, and have no notation appear on their transcripts, through the fourth week* or 30% of the term for classes less than a semester in length. **IT IS THE STUDENT'S RESPONSIBILITY TO DROP CLASS (ES)**. The necessary forms are available from Admissions and Records, Extended Education Centers, or by mail. If a student intends to drop a class and stops attending but fails to file the necessary forms, a failing letter grade may be assigned by the instructor.

WITHDRAWING FROM A CLASS WITH A "W" GRADE

Students may withdraw from a class after the official "drop" date and up through the fourteenth week or 75% of the term for classes less than a semester in length. The notation "W's" will appear on the student's transcript and will not be used in calculations of grade point average. Excessive "W" shall, however, be used as factors in probation and dismissal procedures. **IT IS THE STUDENT'S RESPONSIBILITY TO OBTAIN FORMS AND SUBMIT THE NECESSARY PAPERWORK TO WITHDRAW FROM A CLASS**. Forms are available from Admissions and Records, Extended Education Centers, or by mail. Students who have not dropped or withdrawn from a class before the end of the fourteenth week or 75% of the term will be assigned a course grade.

ATTENDANCE

Students are expected to attend all class meetings. A student who fails to attend the first meeting of a course without notifying the instructor may be dropped from the class. In addition, an instructor may drop a student during the first 30% of the term for excessive absences. Nevertheless, **IT IS ALWAYS THE STUDENT'S RESPONSIBILITY TO OFFICIALLY DROP OR WITHDRAW** from the class. Students who fail to file the necessary forms, even though they stop attending class