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Organic Chemistry II

Fall 2016

Text: www.ochem4free.info by Richard F. Daley & Sally J. Daley

Molecular models (either from the bookstore or from <http://www.indigo.com>, <http://www.megamolecules.com>, etc.) are allowed during exams but are not required.

Free organic chemistry drawing program for UTEP students: [ChemDraw](#).

[A list of IUPAC nomenclature rules](#)

[A very nice NMR & IR site](#)

[Drugs@FDA](#)

Terms of Use: You may not keep, redistribute, edit or link to the videos on this site.

I cannot guarantee video or audio for every lecture so please come to class!

Week	Tuesday	Thursday
1	August 23-Chapter 12- Video	25- Video
2	30-Chapter 13- Video - Video	September 1- Video
3	6-Chapter 14- Video	8- Video
4	13-Chapter 16- Video	15-Review 1- Video
5	20-Exam 1- Video	22- Video
6	27-Chapter 17- Video	29- Video
7	October 4-Chapter 18- Video	6- Video
8	11-Chapter 19- Video	13-Review 2- Video
9	18-Exam 2- Video	20- Video
10	25-Chapter 20- Video	27- Video
11	November 1-Chapter 21- Video	3
12	8-Chapter 24	10-Review 3

13	15-Exam 3	17
14	22-Chapter 23	24-Holiday
15	29	December 1-Review 4
16	6	8-Final, 7 to 8:20 am Exam 4, 8:25-9:45 am

Exam 1: Chapters 12-14

Exam 2: Chapters 16-18

Exam 3: Chapters 19-21

Exam 4: Chapters 23-25

Your grade for this course will consist of:

1. the three best out of four regular 1 hour exams, 3 x 100 points.
2. comprehensive final, 100 points.
3. [exercises](#), 100 points

for a total of 500 points, A > 89.5 %, B > 79.5 %, C > 69.5 %, D > 59.5 % of these points.

Exams:

1. Clean un-mutilated scan-tron forms, #2 pencils and your UTEP ID are required for each exam.
2. The scan-tron form will be your final in-class exam grade.
3. Exam dates are tentative and subject to change!
4. No makeup exams because everyone has the opportunity to drop one regular exam (not the final)!
5. If you miss more than one exam you have greater concerns than this course and you should drop the course before you earn an "F".
6. Students are responsible for dropping from the course before the university drop deadline. Per university policy, I cannot drop students after this deadline.
7. If I suspect that you are cheating on an exam, I will recommend to the Dean of Students that the particular exam in question be dropped from your average. The Dean of Students may suggest additional rehabilitation measures.
8. No cell phones, audio equipment or caps during exams.

Exam Homework:

1. Exams 1-4 may be assigned as homework if the class average is below 75 % on a particular in-class exam.
2. The in-class exam and exam homework will be averaged to come up with your grade for a particular exam.
3. Students are encouraged to work together on this homework but shall not consult with anyone else outside this class including the lecturer.
4. Your exam grade will not go down if your exam homework is lower than your in-class exam grade.
5. Always write your answers on your exam sheets so that you can do the homework and check your answers against the key.
6. The Exams as homework will be submitted through <http://organic.utep.edu/quiz> on time, no excuses since the process is automated.
7. The Exam key will be provided through <http://organic.utep.edu/quiz> after the Exam as homework due date and time.

Extra Credit:

1. Extra credit will be used if the class average is below 75%.
2. The extra credit will consist of answering lecture questions via a laptop.
3. Please do not use your laptops to get distracted doing other things in class, e.g., videos, email, etc.
4. Help for setting up wireless on a laptop can be found at <http://wireless.utep.edu>.
5. Twice as much credit will be given for correct over incorrect answers.
6. Survey questions will not be graded and thus will receive only half credit.

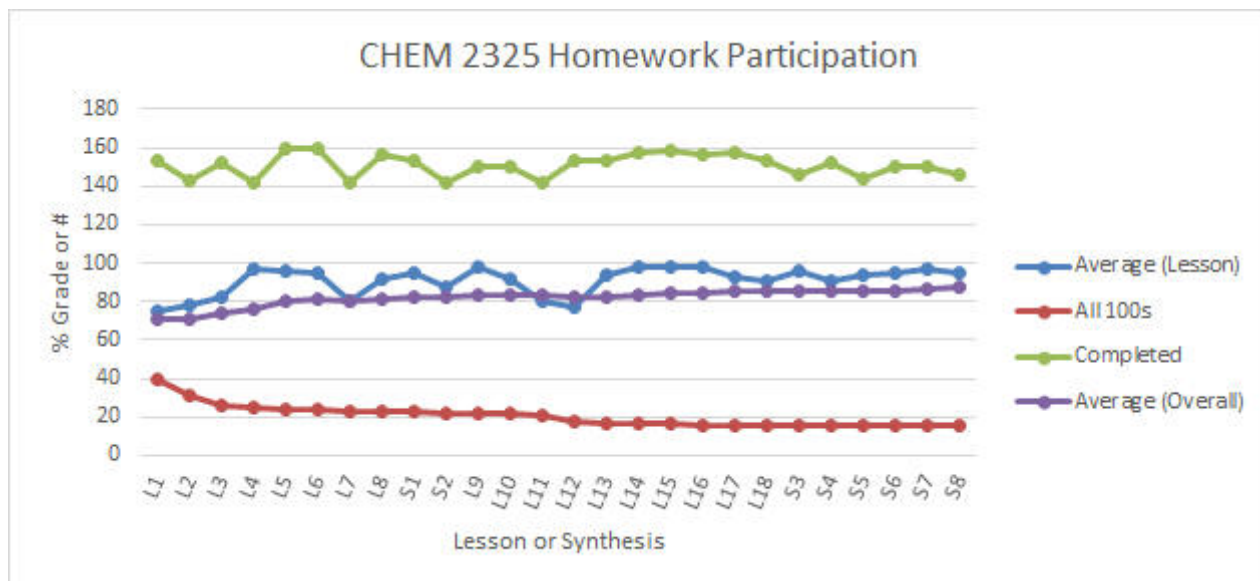
7. The extra-credit feedback will always be behind one graded answer.
8. The extra credit will not raise the class average above 75 %.
9. The extra credit will be scaled to make the class average 75 %.
10. Because of the numerous opportunities to do well in this course and the extra credit, the grading scale will not change.
11. If by random attendance you are found not to be answering extra-credit questions yourself, your extra credit account will be turned-off.
12. I reserve the right to disregard answers that do not make sense to what is asked.

Timing:

1. It is your responsibility to attend every lecture (I reserve the right to use attendance as part of your grade!) and do as many problems possible from the chapters we cover.
2. No excuses for missing exams or not completing exercises on time! This course is your full-time job!
3. This semester's automatic "W" drop deadline is ? Because of the policy on the number of drops a students can have, please talk directly to the College of Science about dropping this course after this deadline.

Please look at the undergraduate catalog for policies pertaining to everything else. Study Suggestions:

1. Read before lecture but do not reread to the point of frustration. Read to familiarize yourself with the location of subjects in each chapter. Keep in mind that science textbooks are technical manuals not "easy reading".
2. Do problems. In fact do a section of problems without looking at the key and grade yourself honestly. If after you peek at the key you say "I could have gotten that", this is not a good indication that you will do well on an exam. Look back only at those sections of the text that pertain to a problem to optimize your study time.
3. It is not a bad idea or cheating to look at your textbook, notes, work with a friend, or ask your instructor for help on the exercises. In fact I have no control how students do the exercises. The exercises are really tutorials and not quizzes. If after you get your 100 % you do not go back and do a particular exercise on your own, you are cheating yourself of the opportunity to evaluate yourself honestly. Remember that you can repeat an exercise as many times as you like for the highest score before its due date and time. Try to do the exercise days and not minutes before it is due so you can ask for some help. Remember that it is the time you finish the lesson and the server's time that counts!



Exercises Due Dates

(All lessons and syntheses due on the midnight (SMT) of the date given).

L#	Title	Video	"Rosetta Stone" Suggested Reading Pages (Sections)	Due Date
L1	S_N1 and S_N2 Reactions of Epoxides	✓	621-622, 635-636 (12.10, 12.13), Anchemerie Assistance 636 (12.14)	Postponed to Tuesday, August 30 with next lesson
L2	Dehydration of Alcohols to Alkenes	✓	684-687 (13.9)	Tuesday, August 30
L3	S_N1, S_N2, E1 and E2 Reactions of Alkyl Halides	✓	Chapters 12 & 13	Thursday, September 1
L4	Oxidation of Alcohols	✓	696-700 (13.12)	Saturday, September 3
L5	Most and Least Stable Alkenes	✓	664-671 (13.3)	Tuesday, September 6
L6	Alkynes and Alkenynes	✓	100-109 (2.9-2.10)	Thursday, September 8
L7	Alkene Addition Reactions	✓	(14)	Saturday, September 10
L8	Alkyne Addition Reactions	✓	(14)	Tuesday, September 13
S1	Synthesis: Leaf Alcohol	✓		Thursday, September 15
S2	Synthesis: Cascarillie Acid	-	-	Saturday, September 17
L9	Cumulenes	✓	-	Thursday, September 22
L10	Conjugated and Isolated Alkadienes	✓	(16)	Saturday, September 24
L11	Cyclo Additions-Diels Alder	✓	(16)	Tuesday, September 27
L12	Electrocyclic Reactions	✓	-	Thursday, September 29
L13	Benzene Derivatives	✓	(18)	Saturday, October 1
L14	Benzenoid Aromatics	✓	(17)	Tuesday, October 4
L15	Non-Benzenoid Aromatics	✓	(17)	Thursday, October 6
L16	Anti and Non-Aromatic Hydrocarbons	✓	(17)	Saturday, October 8
L17	Aromatic Heterocycles	✓	(17)	Tuesday, October 11
L18	Synthesis of Benzene Derivatives	✓	(18)	Thursday, October 13
S3	Synthesis: A Limonene Isomer	-	-	Saturday, October 15
S4	Synthesis: A Norbornane Derivative	-	-	Thursday, October 20

S5	Synthesis: Acetaminophen	-	-	Saturday, October 22
S6	Synthesis: Ibuprofen	-	-	Tuesday, October 25
S7	Synthesis: A Hormone Herbicide	-	-	Thursday, October 27
S8	Synthesis: A Synthetic Musk	-	-	Saturday, October 29
L19	Enol, Enolate Reactions	√	(19)	Tuesday, November 1
L20	Aldol Reactions	√	(20)	Thursday, November 3
L21	Claisen Condensation Reactions	√	(20)	Saturday, November 5
L22	Additions to alpha,beta- Unsaturated Carbonyl Compounds	Lecture Video	(20)	Tuesday, November 8
L23	Free Radical Halogenation of Alkanes	Lecture Video	(21)	Thursday, November 10
S9	Synthesis: Steroid Rings			Saturday, November 12
S10	?			Thursday, November 17
L24	Carbohydrates	√√√	(24)	Saturday, November 19
L25	alpha-Ammonium Carboxylates (Amino Acids)	√	(23)	Tuesday, November 22
L26	Dipeptides with Essential Alpha-Amino Acids	√	(23)	Tuesday, November 29
S11	Synthesis: Two Artificial Sweeteners			Thursday, December 1

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PSCI 203C, 308

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Office Hours: MWF 8:30-9:30 am, TR 9 to 10:30 am or by appointment.