

# 2325

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## Organic Chemistry II

Summer II 2016

Text: [www.ochem4free.info](http://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](#)

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

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1-first hour	July 4-Holiday	5-Chapter 12 (Substitution)	6	7-Chapter 13 (Elimination)	8 Chapter 14 (Addition)
second hour					
2-first hour	11	12-Review 1	13-Exam 1	14	15-Chapter 17 (Aromaticity)
second hour		Chapter 16 (Extended Pi)			

		Systems)			
3-first hour	18-Chapter 18 (EAS)	19	20-Review 2	21-Exam 2	22
second hour			Chapter 19 (Enolates)		Chapter 20 (Condensations)
4-first hour	25	26	27-Review 3	28-Exam 3	29
second hour	Chapter 21 (Radicals)	Chapter 24 (Carbohydrates)		Chapter 23 (Peptides)	Review 4
5	August 1- Comprehensive Final- 10:00 to 11:20 am, Exam 4-11:30 am to 12:45 pm				

Exam 1: Chapters 12-14

Exam 2: Chapters 16-18

Exam 3: Chapters 19-21

Exam 4: Chapters 22-25

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 <sub>N</sub> 1 and S <sub>N</sub> 2 Reactions of Epoxides	√	621-622, 635-636 (12.10, 12.13), Anchemeric Assistance 636 (12.14)	
L2	Dehydration of Alcohols to Alkenes	√	684-687 (13.9)	
L3	S <sub>N</sub> 1, S <sub>N</sub> 2, E1 and E2 Reactions of Alkyl Halides	√	Chapters 12 & 13	
L4	Oxidation of Alcohols	√	696-700 (13.12)	
L5	Most and Least Stable Alkenes	√	664-671 (13.3)	
L6	Alkynes and Alkenynes	√	100-109 (2.9-2.10)	
L7	Alkene Addition Reactions	√	(14)	
L8	Alkyne Addition Reactions	√	(14)	
S1	Synthesis: Leaf Alcohol	√		
S2	Synthesis: Cascariilic Acid			
L9	Cumulenes	√		
L10	Conjugated and Isolated	√	(16)	

	Alkadienes			
L11	Graphical Huckel Method	√		
L12	Cyclo Additions-Diels Alder	√	(16)	
L13	Electrocyclic Reactions	√		
L14	Benzene Derivatives	√	(18)	
L15	Benzenoid Aromatics	√	(17)	
L16	Non-Benzenoid Aromatics	√	(17)	
L17	Anti and Non-Aromatic Hydrocarbons	√	(17)	
L18	Aromatic Heterocycles	√	(17)	
L19	Synthesis of Benzene Derivatives	√	(18)	
S3	Synthesis: A Limonene Isomer			
S4	Synthesis: A Norbornane Derivative			
S5	Synthesis: Acetaminophen			
S6	Synthesis: Ibuprofen			
S7	Synthesis: A Hormone Herbicide			
S8	Synthesis: A Synthetic Musk			
L20	Enol, Enolate Reactions	√	(19)	
L21	Aldol Reactions	√	(20)	
L22	Claisen Condensation Reactions	√	(20)	
L23	Additions to alpha,beta-Unsaturated Carbonyl Compounds	Lecture Video	(20)	
L24	Free Radical Halogenation of Alkanes	Lecture Video	(21)	
S9	Synthesis: Steroid Rings			
L25	Synthetic Polymers	Lecture Video	(22)	
L26	Carbohydrates	√√√	(24)	
L27	alpha-Ammonium Carboxylates (Amino Acids)	√	(23)	
L28	Dipeptides with Essential Alpha-Amino Acids	√	(23)	
S10	Synthesis: Two Artificial			

Sweeteners
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