

APPROXIMATE COURSE SCHEDULE AND ASSIGNMENTS IN SOLOMONS & FRYHLE, 10th ed.

READ IN ADVANCE the sections assigned below. The brief summaries "In This Chapter" and the Concept Maps at the end of chapters and the Glossary at the end of the book are especially helpful in organizing the material. You are not responsible for history, for personalities, for vignettes at the beginning of chapters, for stories in "The Chemistry of ..." sections or for captions to photographs, but you will enjoy reading some of this material. You may also find the online WileyPLUS course (www.wileyplus.com) version helpful.

Do as many problems as you have time for (more than just those with "!"), but you may not wish to do all those listed below. Many are trivial drill that you should persist with until you feel confident that you could do the rest. The "arithmetic" ones are not assigned, but they may be instructive. So choose to do problems to help you understand and to help extend your understanding. Do the Problems within the chapter (Solved Problems, Review Problems) as you read, and do the Problems at the end of each chapter and the Quiz in the Study Guide, which are especially recommended, after the relevant lectures. Your answers are not to be handed in, so you are encouraged to collaborate with other students. The answers are not important in themselves, so don't just look them up! What is important is the understanding that the problems test for and the method of thinking that they demonstrate. If you have an answer that you think is correct but is different from the one in the Solutions Manual, ask your TA. You may also ask (and answer) questions at the course website (<https://ted.ucsd.edu>), where you sign in with your UCSD e-mail username and password. This schedule, with any changes, is also posted on the website, and you are responsible for keeping informed of changes.

Key to symbols:

- ! = difficult or important or both; don't just skim
- () = optional (for your enjoyment or general edification)
- + = plus additional material in lecture
- = partial coverage (pay attention to emphasis in lecture, skim text if unclear)
- ? = don't believe all you read (or misprint in Problem or Answer)
- X = except

Sep. 28, Oct. 1, 3, 5: CHAPTER 1 (Use Lewis structures, with lone pairs.)
Sections: (Preface, pp xxi-xxviii), Introduction in Study Guide (pp. vii-

xix)!, (0), (1), 2-!, 3!, 4!-, 5!, 6, 7+!, 8!, (9), 10±, 11±, 12!±, 13!-, 14-, 15, 16!, 17, 18!

Problems: (1), 2!, S1, 3, S2, S3, S4, S5, S6, 5!(central N,S,P,C, with OH), 6!, 7, S7, 8a(bc), 9, 10!, 11, 13, (14), 16, (17), 18, 19, 20, S8, 21, (S9), (22), 23, 24, 25!, 26, 27!, 28!, 29, 30, 31!, 33!, 34, 35Xb, 36, 37, 38, 39, 40, 41, 42ab(c)d, (43), 44bc, 45, 46a(bc), 47!, L.G.12345

Quiz: 1, 2, 3, 4, 6, 7, 8, 9Xe, 10, 11

Oct. 8, 10, 12: CHAPTER 2 (For answers use condensed or Lewis structures, not bond-line!)

Sections: (0), 1, 2!XA, 3, 4!, 5, 6, 7, 8, 9, 10, 11, 12, Table3!"Memorize", or include on Reminder Sheet, 13±, 14, 15!±, Table7, "Memorize" frequencies on p. 85, 16- 17

Problems: S1, 1, S2, 2, S3, 3, 4, 5, 6, 7, S4, 8, 9a!(b), S5, 10, 11ab(cde), 12, 13, 14abc(def), 16, 17, 19, 20, 21, 22, 23, 24, 25, (26), S6, 27, S7!, 28, 29!, 30!, 31!, 32!, 33, 34, 35!, (36), (37), 38, (39), (40), 41, 42, 44, 45, 46, 47!, (48), 49, (50), 51, 52, 53, 54, 55!, 56, 57, (58), L.G.123456(78)

Quiz: 1, 2, 3, 4, 5, 6

Oct. 15, 17: CHAPTER 3

Sections: 0, 1!-, 2!, 3!-, 4!, 5!, 6!-, (7)

Problems: (S1), (1),(S2), 3, 5(ab)c, (6), S3, 7!, 8, S4, 9, 10, (11), (12), S5, 14, 15, 16, (S6), 17, 18!, 19!, 20!, 21!, 22, 23, 24, 25, 26, 27, 29, (30), 31!, 32, 33!, (34), 35, 36, 37, (38), 40, 41!, (43), 44a?b(c), L.G. 1234(a)b

Quiz: 11, 2, 3, 4, 5, 6, 7, 8, 9, (10)

Oct. 19, 22, 24, 26: CHAPTER 4 [Nomenclature: Be sure that you can draw the correct structure from a molecule's name. For 140A you don't need to provide the correct name.]

Sections: (0), 1-, 2-, 3!-"Memorize" Table 3 to n=10, 4A!-, 5-, 6-, (7), 8!-, 9!, 10, 11!-, 12!, 13!, (14), (15), 16, 17!, 18

Problems: 1!, (S1), 2, 3-, 4?, 5b!-, 6!-, (S2), 7!-, 11!, 12-, 13!, (14), 15!, S5!, 16, 17?, 18, 19, 20!, 21, 22, 23!, 26-, 27-, 28-, (31a), 32!, 33, 34!, 35(only two), 36, 37, 38, (39), 40, 41, 43!, 46, (47), L.G.1!

Quiz: 1, 4, 5, 6, 7, 8ac, 9, 10

Oct. 29 (Monday): MIDTERM EXAM, covering CHAPS. 1-4.8 and all assigned problems within those sections, including those within Problems 4.23-4.35 and Quiz to 4.5.

Oct. 31, Nov. 2, 5: CHAPTER 5

Sections: 0, 1, 2!,"Subdivision of Isomers"+, 3, 4!, (5), 6+!?, 7!, 8-, 9!-, 10, (11), 12!, (13)[Warning: Do not use Fischer projections!], 14!, 15, 16-,

(17), (18)

Problems: 1, 2, 3, S1, 4!, 5, 6!, S2, 7, 8!, S3, 9, 10!, 11, 12, S4, 13, 14, (S5), (15), 16, 17, 18, 19, 20, 21, S[?], 22!, 23, 24, 25, 27, 28, 29, 30, S7, 31, 33a-d!, 34, 35!, 37!, 38!, 39Xklq!, 42!, 43!, 44!, 45, 46, 47!, 48, 49, 50, (52), 53, L.G.1a(b)3a(b)

Quiz: 1,2,3,5,6,7,8, 9

Nov. 7, 9, 14, 16: CHAPTER 6

Sections: 0, 1, 2!, 3, 4!, 5+, 6!, 7±!, Fig. 6.1, 8!, 9!, 10, 11±!, 12, 13-!, 14, 15, 16, 17, 18!, 19Table7!, 3!, 4, 5, 6, 7!, Table4!, 8!,

Table5,Table7examples!, 9

Problems: 2, S1, S2!, 3!, 4, S3, 5, (6), S4, 7, 8, S5, 9, S6, 10, 11, 12, 13, 14, 15, 16a(bc), 17, 18, S7, 19, S8!, ,20, 21, 22, 23!, 24!, 25, 26, 27!, 28!, 29!, 30, 31, (32), 33, 34!, 35!, (36), (37), 38, 40, 41!, 43, 44, 45, 46, 47, (49), (50), 51, 52, 53, L.G.1ab(c)2a

Quiz: 1, 2, (3), 4, 5!, 6, 7

Nov. 19 (Monday): MIDTERM EXAM, covering CHAPS. 1-6.14 and all assigned problems within those sections, plus 6.20-24Xk,25,28Xi,30,33-35,40-41,44-47,51-52 and Quiz 6.2,4,6,7.

Nov. 21, 26, 28: CHAPTER 7

Sections: 0, 1, 2!, 3-, 4, 5, 6?+, 7, 8!, 9, 10, 11, 12, 13, 14, 15, 16!, Summary

Problems: S1, 1-, S2, 2, 3, 4, 5, S3, S4, 6, 7, 8, 9, S5, 10, 11, 12, 13, S6, (16), (after 7.8B:) 14, 15, S7, 18, 19!, S8, 20, 21, 22, S9!, 23!, 24!, 26, 27-, 29, 30!, 31, 32!, (33), 34!, 35, 36, 37, 38, 39!, 40, 41, 43, 44, 45, 46, 47!, (48), 49, 51, 52a(b), 54, L.G.1234!

Quiz: 1,3,4,5,6

Nov. 30, Dec.3, 5: CHAPTER 8

Sections: (0), 1, 2!XD, 3, 4-, 5!, 6, 7, 8!, 9+, 10, 11, 12, 13!, 14, 15-, 16, 17, 18, 19, 20, 21!

Problems: 1, 2, 3, S1, 5, 6!, 7, 8, S2!, 9, 10ab(c), 11, (12), 13, S3, (14), 15, 16, 17-, 19!, 20, S4, S5, S6, 21, 22, (23), 24, S7!, 25, 26!Xde, 27!Xde, 28, 29, 30, 31, 32!, 33!, 34c, 35, 36, 37, 38, 39!, 40, (41), (42), 43, (44), 45!, 46!, 47, 48!, 49-, 50, 51, 52, 53, 54, (55), 56!, 57, 58, 59, 60, 61, 62!, 64, 65!Xc, (66), 67, L.G.1!, 2!, 3!, (4)

Quiz: 1, 2, 4, 5, 6, 7, 8

Dec. 7: Margin of Safety/Review

Dec. 12 (Wednesday), 3:00 PM – 6:00 PM: FINAL EXAM, covering CHAPTERS 1–8, in Mandeville Auditorium (subject to availability). Sit in alternate seats, with no one adjacent. Arrive early to get a seat with a desk, or bring a clipboard or nonchemistry textbook to write on. If you want to retrieve your exam, either bring a stamped, self-addressed business-size (4.25x9.5 inch) envelope (postage 65¢, unnecessary if sent to on-campus address), or be willing to sign your exam authorizing us to leave it in the 5th floor lobby of PacHall.

ADVICE TO STUDENTS

Textbook

Solomons & Fryhle, "Organic Chemistry," 10th ed. (2011) + "Study Guide & Solutions Manual" ± eBook (optional online version at www.wileyplus.com). A set of molecular models, which can be shared, is also recommended. The cheapest ball-and-stick models (from maruzen.info/hgs/catalog/, molecularvisions.com, megamolecules.com (MG140), or ACS Student Affiliates in York 2200) are preferable to space-filling ones. Use of textbook or models during exams is prohibited.

Material Covered

You are responsible for assigned material in the textbook and in lectures, which will clarify the textbook, emphasize the important topics, and occasionally present additional material.

DO NOT FALL BEHIND!

Read the textbook IN ADVANCE of the lectures, so that you won't need to take lecture notes that duplicate examples that are in the book. As you read, do the Problems. Your answers are not to be handed in, so you are encouraged to discuss and compare them with other students (but not during exams!). Honesty is a requirement of this course, and all cheating will be punished severely.

Exams and Grades

Grades depend on performance on two midterm exams (200 points, 250 points) and the final (550 points). No exam booklets ("bluebooks") or Scantron forms are necessary, but bring a pencil for Scantron questions and a pen for written questions, which must be answered IN INK. Exams will be long, with an expected class average of 50–60% (to discourage copying and to protect good students from missing an A for one silly mistake). You must bring a **PICTURE ID** (student or driver) and your student ID number to EVERY exam. Since exams are scaled by comparison with the rest of the class, make-up exams are strongly

discouraged. Exams not taken will be assigned 0 points. Exceptions require a medical excuse, signed by your doctor, stating that you were incapable of attending the exam.

You may bring one 22 cm x 28 cm (two-sided) **Reminder Sheet** to exams, with any information you want, readable without a magnifying lens. As you read and study, you should plan, organize, and revise your Reminder Sheet carefully, so that it is useful for solving problems.

Midterms will be returned in section. If you think your exam has been misgraded, return it to your TA with an explanatory note attached. **MAKE NO MARKS ON YOUR EXAM.**

Grades will be posted at WebCT (<https://ted.ucsd.edu>), protected by your UCSD e-mail username and password.

Sections

M 5:00PM–5:50PM (TBA, TM102–1), M 6:00PM–6:50PM (TBA, TM102–1), M 7:00PM–7:50PM (TBA, TM102–1), M 8:00PM–8:50PM (TBA, TM102–1), W 5:00PM–5:50PM (TBA, York4080A), W 6:00PM–6:50PM (TBA, York4080A), W 7:00PM–7:50PM (TBA, York4080A), W 8:00PM–8:50PM (TBA, York4080A)

Sections are to help you understand the material and to verify that you really do understand. They are strongly recommended, and regular attendance will definitely be to your advantage. GO!!! You may attend whichever one(s) you wish, subject to room capacity. (If you attend a section other than the one you registered for, indicate on midterms where you want to retrieve them.) You will benefit more if you come prepared to ask and answer questions. No part of your grade depends on your performance in Section, so don't be ashamed to ask questions or to propose and comment on answers. Additional help may be obtained during your TA's office hours, which will be announced in Section.

Dr. Perrin's Office Hours (subject to change): Tu 1–2, W 2–3 PM, Th 11–12 PM, PacHall 5223A