

COURSE SCHEDULE - CHEM 126 - SUMMER 2009

TEXTBOOK ABBREVIATIONS

RGM- Reger, Goode, & Mercer, Chemistry Principles & Practice, 2nd Edition

SSM - Shakhshiri, Schreiner, & Meyer, Workbook for General Chemistry Audio-Tape Lessons, 2nd Edition

DW - Davis & Witten, Study Guide\Workbook for Chemistry Principles & Practice, 2nd Ed. (**Optional, highly recommended**)

JD - John DeKorte, Student Solution Manual, (**Optional, highly recommended**)

M - Molecular Structure Models, Type C (for Organic Chemistry), made by MARUZEN

TOPIC #	LECTURE and RECITATION TOPICS	CHAPTER HW PROBLEMS	AUDIO-TAPE LESSON
TOPIC 1	RGM Chapter 13; Chemical Kinetics	13.18,13.22,13.30,13.36,13.40, 13.46,13.48,13.50,13.54,13.60, 13.72,13.74,13.80,13.88	SSM Lesson #23 Chemical Kinetics
TOPIC 2	RGM Chapter 13 - continued		Same Lesson as Week #1 You have 2 weeks to complete SSM Lesson 23
TOPIC 3	RGM Chapter 14; Chemical Equilibrium	14.14,14.18,14.28,14.32,14.34, 14.38,14.42,14.52,14.56,14.66, 14.68,14.72,14.80,14.90	SSM Lesson #6: Mole Fraction, Molality, and Molarity
TOPIC 4	RGM Chapter 14 - continued RGM Chapter 15; Solutions of Acids and Bases		SSM Lesson #17 Chemical Equilibrium in Gaseous Systems
TOPIC 5	RGM Chapter 15 - continued	15.24,15.30,15.34,15.40,15.46, 15.52,15.60,15.62,15.68,15.70, 15.78,15.85,15.86,15.92	SSM Lesson #18 Acids and Bases
COMMON EXAM. #1 - Covers: RGM Chapters 13, 14 - Other Details To Be Announced in Class			
TOPIC 6	RGM Chapter 16; Reactions Between Acids & Bases	16.14,16.16,16.26,16.30,16.36, 16.44,16.54,16.60,16.64,16.76, 16.80,16.84,16.90,16.92	SSM Lesson #19 Ionization of Weak Acids and Bases
TOPIC 7	RGM Chapter 16 - continued		SSM Lesson #21 Buffer Solutions

TOPIC 8	RGM Chapter 17; Chemical Thermodynamics	17.22,17.30,17.34,17.38,17.46, 17.54,17.62,17.74,17.76,17.82, 17.86,17.90,17.98,17.100	SSM Lesson #7 Thermal Energy Changes in Chemical Reactions
----------------	--	--	--

TOPIC 9	RGM Chapter 17 - continued		SSM Lesson #27 Balancing Oxidation- Reduction Equations
----------------	----------------------------	--	---

COMMON EXAM. #2 - Covers: RGM Chapter 15, & 16 - Other Details To Be Announced in Class

TOPIC 10	RGM Chapter 18; Electrochemistry	18.14,18.32,18.36,18.54,18.58, 18.64,18.66,18.72,18.74,18.78, 18.90,18.92,18.96,18.106	SSM Lesson #28 Voltaic Cells
-----------------	-------------------------------------	--	---------------------------------

TOPIC 11	RGM Chapter 18 - continued		
-----------------	----------------------------	--	--

TOPIC 12	Start: RGM Chapter 21; Nuclear Chemistry	21.16,21.20,21.22,21.28,21.30, 21.32,21.34,21.38,21.40,21.44, 21.46,21.48,21.51,21.53	SSM Lesson #30 Nuclear Reactions & Radioactivity
-----------------	---	---	--

COMMON EXAM. #3 - Covers: RGM Chapters 17 & 18 - Other Details To Be Announced in Class

TOPIC 13	Start: RGM Chapter 22; Organic Chemistry and Biochemistry	22.26,22.28,22.36,22.38,22.48, 22.54,22.56,22.58,22.66,22.70, 22.76,22.78,22.86,22.88	SSM Lesson #31 & #32 Both Lessons deal with, Organic Chemistry
-----------------	--	---	--

TOPIC 14	Review Unfinished Work "Bit's 'n Pieces"		No Scheduled Assignment
-----------------	--	--	-------------------------------

NOTE WELL: No Student may be enrolled in CHEM 126 unless he or she has either received credit for or has passed CHEM 125.

IMPORTANT INFORMATION - PLEASE READ CAREFULLY

You will be held accountable for both knowing the information and for following the instructions given in the following pages

CLASS SCHEDULE To be announced in class.

LECTURES, RECITATION Students are expected to read the specified textbook material **before** coming to class. See below for attendance policy. Instructors may spend more or less time on the topics listed; they may be one or two topics ahead or behind. During Week #1, your instructor will explain the structure of the course. New material is introduced and discussed in lecture. During recitation: (a) the subject matter is repeated and reinforced, (b) questions are answered, (c) homework problems are discussed and solved, (d) quizzes may be given, and (e) new material may be introduced, taught, and discussed.

ATTENDANCE POLICY Attendance is required at all meetings of this course. Three unexcused absences are tolerated - these include undocumented illness and absences due to personal difficulties. For an excused absence, you must submit documentation to your instructor and obtain his or her approval. Attendance is worth 70 points; 10 points are lost for each unexcused absence beyond three (*see end of next page for course grading*).

HOMEWORK Your recitation instructor may assign homework problems different from those listed in this course schedule. All homework assignments must be worked out and submitted according to the specific directions and requirements of your recitation instructor. Late homeworks usually receive a grade of zero. Solutions to the listed homework problems will be posted on the CHEM 126 bulletin board. Please bring to the attention of Dr. Bob Conley (Room 352T; Ext 3277) any mistakes found in these posted solutions.

AUDIO-TAPE LESSONS Unless specifically exempted, all students are required to work each scheduled audio-tape lesson in the CHEM LEARNING CENTER CLC (Room 110T) during the week specified in the course outline. Only half credit will be given if the scheduled lesson is completed one week late; thereafter, no credit will be given. Students receiving an **A or B in CHEM 125** within the last 2 semesters are exempted from the audio-tape lessons scheduled only up to common exam #1. Unless you are specifically exempted from CLC work, it is required; however, even if you are exempted you may still work them. Those who receive a grade of 60% on a **common exam** are exempted from the lessons scheduled between that exam and the **next exam only**. The names of these students will be posted on the CHEM 126 bulletin board. The hours that the CLC is scheduled to be open are posted on the door. If the CLC is not open when it is supposed to be, contact either Dr. Bob Conley (352T) or the department administrative assistant (Gayle Katz) in the Chemistry Office (Room 384T). Dr. Bob or the department administrative assistant will then decide if you need more time to complete that week's lesson. The CLC monitors will examine your workbook and give any further instructions. When you are finished with the lesson, show your completed assignment in the workbook to the CLC monitor. You will then be credited for the lesson.

Your CHEM 126 instructor may substitute other activities to replace the audio-tape lessons.

WHERE TO GO FOR HELP Tutoring is available on both a walk-in and appointment basis at the University Learning Center located in Room 200 in Kupfrian Hall. or more information call (973) 596-2992 between 8:30 am to 7:30 pm (Mon-Thu) Fridays 8:30 to 4:00 pm. Tutoring opportunities are usually announced in the Advertisement section of the University newspaper (the VECTOR). Do not wait until it is too late to seek help. If you continue to have academic difficulty with CHEM 126, you are encouraged to make an appointment to talk with your instructor. Instructors usually announce their office hours during the first week of the semester and these office hours are also posted on their office door. Students are also reminded that the office of the Dean of Freshman Studies, 306 Campbell Hall (x2981), may be of some assistance.

COMMON EXAMINATIONS Three common examinations will be administered throughout the semester. No books, notes, tables, or scrap paper will be allowed. ***Calculators but not hand held computers are permitted.*** Calculators with battery operation only are permitted. Students must bring ***two #2 pencils*** to all exams, and four #2 pencils to the Final Exam. Students must know their social security numbers for every examination.

Information describing the format of the common exams will be given by your Lecture Instructor. The Final Exam will be the American Chemical Society composite end-of-year examination for General Chemistry. The material tested is from Chem 125 and Chem 126. This exam is 110 minutes long and will consist of machine graded multiple choice questions and problems only.

One ***make-up examination*** will be permitted if there is an acceptable and substantial reason, but a \$5.00 fee is required - see section on SPECIAL EXAM FEE in your catalog. A grade of zero will be given for a second missed examination independent of reason. Additional details concerning exams will be given by your Lecture Instructor.

Students are reminded that violations of the NJIT student Honor Code are serious and that the Chemistry Division will make an extraordinary effort to prevent ***CHEATING*** on all examinations and will vigorously prosecute cases of cheating, if any, in accordance with NJIT policy and procedures. Students are hereby notified that computer crosschecking and statistical analytical methods are used, in addition to the more traditional methods, to detect and deter cheating.

COURSE GRADING ***Common Exams #1, #2, and 3*** total 300 points maximum; ***Final Exam*** is 250 points maximum. ***Recitation*** scores (homework and quizzes) will be statistically adjusted to an average of 85 ± 20 with a maximum of 125 points; ***Learning Center*** (audio-tape lessons) scores total to 80 points maximum; ***Class Attendance*** maximum is 70 points. The total maximum score is 825 points. A minimum passing score such as 488 points will be established. The Chemistry Division reserves the right to change this minimum passing score at the close of the semester. Because of the weakness in the statistical significance of just a few points out of 825, borderline cases will be considered subjectively by all faculty and staff members involved in **CHEM 126**. Please be advised that conduct, attitude, and a student's apparent effort will be among factors employed in judging borderline cases.