

Survey of Chemistry II-Syllabus
Department of Chemistry
Georgia State University

Please read carefully before the first day of class!! Refer the syllabus for important days and deadlines. You are responsible for finishing the assignments on time and keeping up with the schedule.

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Please use your official GSU email; do not e-mail through D2L, (or BrightSpace).

Lecture: MWF 12:00-1:40 pm in Langdale Hall 700 (06/08-08/01)

Office Hours: WF 2:00-3:00 pm or by appointment

Labs: 06/16-07/23

Textbook: General, Organic, and Biological Chemistry: Structures of Life/Karen C. Timberlake (4th Edition) (Prentice Hall, PEARSON)

ISBN-13: 978-032175089-1 ISBN-10: 032175089-6

Preparation for the course:

- 1) Read the assigned material in the text before it is covered in lecture.
- 2) Work out the end of the chapter problems. You know what you know when you answer the questions with the closed book. Exams are closed book. Previewing solutions to problems gives a false sense of confidence about the subject matter, and typically results in poorer test scores.
- 3) Students need to purchase access to Mastering Chemistry to do online home work and access resources available from the editor of the textbook.
- 4) Chapters to be covered: 11–24 in the text book.

You will receive further information about mastering chemistry on the first day of class. Mastering Chemistry ID: CHEM1152FernandoSu2015

Students need to meet Mastering Chemistry HW deadlines to receive credit. All homework deadlines are set up DUE Sundays AT 12:00 am (midnight). The instructor will not re-open the assignments.

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Course Schedule: Please note that deviations might be necessary.

Before you come to class	Review some topics listed from CHEM 1151: Lewis structures, VSEPR Theory, predict shapes and bond angles for small molecules
06/08	Chapter 11: Introduction to Organic Chemistry: Alkanes and cycloalkanes
06/10	Chapter 12: Alkenes, Alkynes & aromatic compounds
06/12	Chapter 13: alcohols and phenols (make flash cards on common aromatic compounds)
06/14	Online HW in Mastering Chemistry due at midnight
06/15	Exam 1: Chapters 11-13 (1 hr) Remember to bring a green scantron Chapter 13: thiols and ethers
06/17	Chapter 14: aldehydes, ketones and chiral molecules (make flash cards on functional groups)
06/19	Chapter 14: chiral molecules Chapter 16: carboxylic acids and esters
06/21	Online HW in Mastering Chemistry due at midnight
06/22	Exam 2: Chapters 13-14 (1 hr) Remember to bring a green scantron Chapter 16: carboxylic acids and esters
06/ 24	Chapter 18: amines and amides
06/26	30 min. for questions 12:30 ACS exam-Organic sub-test 55 min. 60 questions 100 points
06/28	Online HW in Mastering Chemistry due at midnight
06/29	Chapter 15: Carbohydrates
07/01	Chapter 15: Carbohydrates Chapter 17: Lipids
07/03	Independence Day Holiday
07/05	Online HW in Mastering Chemistry due at midnight
07/06	Last day to withdraw Chapter 17: Lipids Chapter 19: amino acids
07/08	Chapter 19: proteins

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	Chapter 20: enzymes
07/10	Exam 3: Chapters 15-19 (1 hr) Remember to bring a green scantron Chapter 20: vitamins
07/12	Online HW in Mastering Chemistry due at midnight
07/13	Chapter 21: Nucleic acids – DNA & RNA
07/15	Chapter 21: Protein Synthesis
07/17	Chapter 22: Metabolic Pathways for Carbohydrates
07/19	Online HW in Mastering Chemistry due at midnight
07/20	Chapter 22: metabolic pathways for carbohydrates
07/22	Chapter 23: Metabolism and energy production
07/24	Exam 4: Chapters 19-22 (1 hr) Remember to bring a green scantron Chapter 23: metabolism and energy production
07/27	Chapter 24: Metabolic Pathways for Lipids
07/29	Chapter 24: Metabolic Pathways for amino acids
07/31	30 min. for questions 12:30 ACS exam-Biochemistry sub-test 55 min. 60 questions 100 points

****The final ACS exam (biochemistry sub-test) starts at 10:45 am. Please arrive 15 min early.**

Students need to show their GSU Panther ID card when taking any test/exam.

Scantrons for Major Exams: A total of 4 scantrons; form green.

Scantrons can be purchased from the GSU bookstore.

Scantrons for the ACS exams will be provided by the instructor.

Check Desire2Learn on a regular basis to be updated on announcements, assignments and class notes.

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Course points are calculated as follows:

Home work	=	100 pts
4 Major Exams	=	300 pts
Laboratory (includes lab final exam)	=	200 pts
Final ACS Examination (Organic chemistry)	=	100 pts
Final ACS Examination (Biochemistry)	=	<u>100 pts</u>
Total Possible Points	=	800 pts

Grades cut off

A+ = 96% A = 90% A- = 87% B+ = 84% B = 80% B- = 77% C+ = 74%
C = 70% C- = 67% D = 64-66% F = < 64%

Grade percentile = $\frac{\text{total points for the course}}{800} \times 100$

Prohibited Accessories: Students may **NOT** use a **cell phone** as a timepiece or calculators during exams, or any such transmitting equipment (e.g. **Bluetooth, MP3, laptop, ipod, phone, ipad or tablets**). They are all strictly forbidden during any test or exam. Electronic calculators are not needed in this course.

Disabilities: Students who wish to request accommodation for disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which an accommodation is sought.

Classroom etiquette: Please do not reserve a seat for your friends coming late. Please **refrain from chit-chatting** during class as it distracts not only the students who sit around you but also the instructor. Disruptive conduct during class will not be tolerated and **appropriate action will be taken against you** (refer to your copy of the Student Conduct Code).

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Exams: There will be four exams worth 75 points each. All exams will be multiple choice. Missing any exam will result in the assignment of a zero for that exam. **NO MAKE-UP EXAMS ARE GIVEN. This applies to both the lecture and the laboratory portions of the course. Exams cannot be taken earlier or later than the day scheduled.** The final exam in this course is a timed standardized American Chemical Society comprehensive exam (Organic and Biochemistry sub-tests) and consists of 60 multiple choice questions to be completed in 55 min.

Withdrawal: After July 6, 2015, withdrawing results in a W grade on your transcript. Absence does not guarantee automatic withdrawal. Any student who does not withdraw formally and has an unexcused absence for the final exam will receive an F. A withdrawal from this course will necessitate re-taking the laboratory portion of the course (unless all experiments are performed). A withdrawal can only be removed by repeating (and paying a second time for) the entire course. When repeating the course, no grades are carried over from quizzes, exams, etc, which a student may have taken before withdrawing from the course the first time.

Electronic calculators: Students will need a non-programmable, non-graphing calculator for all exams. A scientific calculator with logarithm, exponent, and memory capabilities is recommended. Students may not share calculators during any exams and they may not loan their calculator to friend at any time during an exam.

GSU Policy Regarding Student Conduct and Integrity: The Georgia State University. Policy on Academic Honesty is in force in this course, including, but not necessarily limited to, infractions in the areas of plagiarism, cheating on examinations, unauthorized collaboration, falsification, and multiple submissions. The University's policy is published in the On Campus: The Student Handbook, available to all members of the university community. Therefore, all exams taken must represent your individual unaided efforts. To receive **or offer** information during an examination is cheating. The use of unauthorized supplementary materials during exams is also cheating. Data from supplementary sources (handbooks, reference literature, etc.) must be clearly referenced (title, author,

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volume, page(s), etc.). Falsification or destruction of data (or allowing laboratory data to be copied) constitutes cheating. Conduct or actions that disrupt class or test periods or falsification of information related to chemistry courses by any student will be taken as violation of the policies of the Board of Regents of the University System of Georgia and the GSU Student Code of Conduct, Section 6.0. Any suspected offenses may be referred to the Department Chair or the Dean of Students for appropriate disciplinary action. Any student presenting falsified documentation will receive an "F" for the course and be referred to the Chemistry Department Chair or Dean of Students for disciplinary action.