

Survey of Chemistry II (CHEM 1152K)

Spring 2019

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.

Instructor: Dr. Nilmi Fernando

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Phone: (404)-413-5490

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Please use your official GSU email; do not e-mail through iCollege

Lecture: TR 3:45 – 5:00 pm in PSC 101

Office Hours: TR 1:30 – 3:00 pm or by appointment in 832 LH

Textbook: *General, Organic, and Biological Chemistry: Structures of Life*

Karen C. Timberlake (5th Edition) (PEARSON) ISBN-13: 978-0321967466, ISBN-10: 0321967461

Points distribution for the grades

10 Online Quizzes	=	100 pts
4 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%

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

Scantrons for Major Exams: A total of 4 scantrons; form 882-E (green).

Scantrons can be purchased from the GSU bookstore.

Scantrons for the ACS exams will be provided.

Check iCollege on a regular basis for updates on announcements, assignments and class notes.

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Tentative Course Schedule: Please note that deviations might be necessary.

	Part I – Organic Chemistry
01/15	Chapter 12: Introduction to organic chemistry and hydrocarbons, alkanes
01/17	Chapter 12: Alkanes and cycloalkanes, nomenclature, substituted alkanes
01/18	Quiz 1
01/22	Chapter 12: Alkenes, nomenclature, reactions
01/24	Chapter 12: Cycloalkenes, alkynes
01/25	Quiz 2
01/29	Chapter 12: Benzene and aromatic compounds
01/31	Chapter 13: Alcohols
02/01	Quiz 3
02/05	Exam 1: Chapters 12-13
02/07	Chapter 13: phenols, ethers, thiols, sulfides, disulfides
02/08	Quiz 4
02/12	Chapter 18: Amines
02/14	Chapter 14: Aldehydes and ketones
02/15	Quiz 5
02/19	Chapter 16: Carboxylic acids
02/21	Chapter 16: Esters and Chapter 18: Amides
02/22	Quiz 6
02/26	Hydrolysis of amides;
02/28	Exam 2: Chapters 12, 13, 14, 16, 18
03/05 3:45 PM PSC 101	ACS exam Organic sub-test 55 min. <i>Midpoint of the semester; last day to withdraw with a 'W'</i>
	Part II - Biochemistry
03/07	Chapter 15: Carbohydrates
03/08	Quiz 7
03/12	Chapter 15: Carbohydrates, Chapter 17: Lipids
03/14	Chapter 17: Lipids
03/15	Quiz 8
03/19-21	Spring Break
03/26	Chapter 19: Amino acids and proteins
03/28	Chapter 19: Proteins
03/29	Quiz 9
04/02	Exam 3: Chapters 15, 17, 19
04/04	Chapter 20: Enzymes and vitamins
04/05	Quiz 10

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04/09	Chapter 21: DNA & RNA
04/11	Chapter 21: DNA & RNA
04/12	Quiz 11
04/16	Chapter 22: Metabolic pathways for carbohydrates Chapter 24: Metabolic pathways for lipids and amino acids
04/18	Chapter 23: Citric acid cycle and electron transport chain
04/19	Quiz 12
04/23	Chapter 23: Electron transport chain and ATP synthesis ‘Oxidative Phosphorylation’
04/25	Exam 4: Chapters 20-24
04/30	No Class
05/07 1:45 PM PSC 101	ACS exam biochemistry sub-test 55 min. <u>**The final ACS exam (biochemistry sub-test) starts at 1:45 PM in the regular lecture room. Students should arrive 15 min early, at 1:30 PM.</u>

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. 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.

Prohibited Accessories: Students are **NOT ALLOWED** to use a cell phone as a timepiece or a calculator 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

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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).

Withdrawal: Withdrawing from class after March 05th, 2019 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, 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.

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