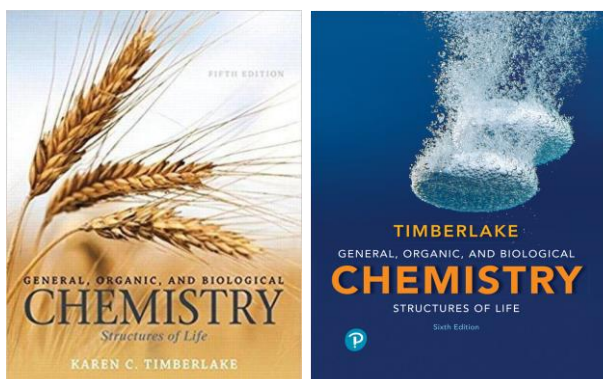


Georgia State University  
Chemistry 1152K  
Course Syllabus, Summer 2019

**Text: General, Organic, and Biological Chemistry Structures of Life (5th or 6th edition)**



**Note! Chapters numerology will be given based on 6-th edition**

**Instructor:** Dr. Elina Stroevea

**Email:** [estroevea@gsu.edu](mailto:estroevea@gsu.edu)

**Send email from your GSU email account only, and mention the course in the subject**

**Office phone:** (404) 413-5899  
**Office:** Courtland North, 214  
**Lecture Time:** M,W, F 12:00-1:40 pm  
**Lecture Room:** Arts & Humanities, 217  
**Office Hours:** F. 10:00-11:30 am (or by appointment)

**Note regarding office hours: if you come to office hours, please, bring your book or your lecture notes and your attempt at the homework or other assignment**

**Course Description:**

This is the second course in a two-semester sequence covering the survey of chemistry for nonscience majors. Chapters to be covered: 12-24.

**Course Prerequisite:** Successful completion of Chemistry 1151K.

Important Dates:

**June 10** Classes begin. The first lecture class. Check the tentative schedule.  
**June 12** The first day of laboratory sessions  
**July 4** Holiday (no classes)  
**July 5** Semester midpoint, last day to withdraw with a “W”  
**July 29** Last day of classes  
**August 2** **Final exam (10:45 – 1:15 am)**

**Course Requirements:**

1. Text: **General, Organic, and Biological Chemistry Structures of Life** by Karen C. Timberlake
2. Internet access on a daily basis.

## Check iCollege page and your GSU email Every Day!

**Learning outcomes:** The goals of this course are set forth by the chemistry department.

- 1) The student should demonstrate a general knowledge of the chemical concepts covered.
- 2) The student should demonstrate the ability to apply chemical principles to problems in biology and medicine.

**Attendance and Preparation Policy:** Students are expected to attend all class meetings. However, attendance in class is **not** recorded (with some few exceptions). Students are responsible for class preparation and for any material presented during the lectures *whether or not it is contained in the textbook*. Chemistry is a *highly* structured course, with each new topic based on others previously developed. Thus, it is *critical* for students to keep *consistently* up-to-date in their readings and assignments. To fall even one class period behind is to risk considerable difficulty in mastery of future material. Therefore, students should:

- 1) review previous material, especially if it was not perfectly understood
- 2) complete reading assignments and on-line quizzes *before* the lecture in which the topics are covered, or at least immediately after the lecture
- 3) complete assigned problems and exercises on time, with an emphasis on mastery of concepts and principals involved rather than looking for a formula that will give the expected answer (*remember that the question can be asked in a different way*)
- 4) the average student needs to do **12-15 hours of work outside of class** (20:80 split between reading and problem solving) in order to earn a passing grade for this class. A student earning high B's and above typically does more than this.

**Withdrawal Policy:** A grade of W will be assigned if the student officially withdraws by midpoint. After midpoint, withdrawal will result in a WF grade.

The University requires that faculty members must, on a date after the midpoint of the course to be set by the Provost (or his designee):

- 1) Give a WF to all those students who are on their rolls but no longer taking the class and
- 2) Report the last day the student attended or turned in an assignment.

**Incomplete:** An incomplete (I grade) is available only if the course has been **essentially completed**. If the student misses the **final exam** due to illness, injury, or other special circumstance, he/she may request an **I** grade. Documentation will be required confirming the illness or other difficulty. The **I** grade must be made up within one semester. If not made up within one semester, the **I** grade automatically reverts to an F. Note that the student may receive an **I** grade only if he/she is passing the course but is unable to take the final exam only.

### Classroom Conduct:

Students are expected to act with respect for the professor and other members of the class. To maintain a beneficial learning environment, *Rude* and/or *Disruptive* behavior will **NOT** be tolerated. Any student whose conduct is deemed inappropriate will be asked to leave the class. The following are considered rude and disruptive:

- Conducting private conversations in the class during lecture/discussion.
- Not paying attention during lecture/discussion.
- Consistently arriving late for class. (In the event of a late arrival, enter and take a seat *quietly*.)
- Leaving class early. (This should occur only in an emergency)
- Walking in-and-out of the classroom while class is in session.
- Ringing beepers and cellular phones. (These should be turned off sound while in class.)

**Course Grade:** The course grade will be determined as a result of a student's individual work as follows:

Quizzes in-class	10 points	7 (6 counted)	60 points
Quizzes on-line	10 points	12 (10 counted)	100 points
Exams in class	80 points	3	240 points
Midterm exam	100 points	1	100 points
Final ACS exam	100 points	1	100 points
Laboratory portion	200 points		200 points
<b>Total</b>		<b>800 points</b>	

\*You must attend your laboratory sessions – at the end of the semester your laboratory instructor will give me a list of students and their laboratory grades.

**In summer 2019 semester the first day of 1152KL lab sessions is 06/12/2019 Wednesday. Laboratory portion of the course requires and includes pre-lab lecture and laboratory session.**

Laboratory sessions instructor	Dr. Navarro-Eisenstein		
Pre-lab lecture	Monday, Wednesday	08:45-9:30 am	NSC, 218
Laboratory sessions	Monday, Wednesday	9:40 – 11:40 am	NSC, 348

Letter grades are assigned based on the following scale (which may be varied slightly):

<u>Total Course Points Earned</u>	<u>Total Course Points Earned (%)</u>	<u>Letter Grade</u>
>765	>95.6	A+
720-764	90.0-95.5	A
696-719	87.0-89.9	A-
684-695	85.5-86.9	B+
640-683	80.0-85.4	B
616-639	77.0-79.9	B-
584-615	73.0-76.9	C+
560-583	70.0-72.9	C
536-559	67.0-69.9	C-
480-535	60.0-66.9	D
<480	<60.0	F

**To receive a passing grade in this course, the student MUST at least**

- 1) take successfully the midterm and final examinations.
- 2) meet certain minimum requirements in the laboratory portion of the course (see lab manual).

**Examinations:** There are 3 major tests in this course during summer semester. **There will be no make-up exams and quizzes.** Missed examinations and quizzes will receive a grade of *zero*.

**Note:** Dr. Stroeveva does not reveal grades via email or phone due to privacy issues and the Chemistry Department's policy.

**There no electronic devices allowed during exams or other check points (no exceptions)!**

**Midterm examination** is multiple choice examination covering all the material from the first part of the course – Organic Chemistry. This test is provided by GSU Chemistry Department. It is the student's responsibility to be on time for the administration of exams. **No extra time will be given to those who show up late for the exam. For your midterm exam you must be in class at the regular class time.**

**Final examination** is a standardized, multiple choice examination covering all the material from the second part of the course - BioChemistry. This test is provided by the American Chemical Society (ACS) and is nationally normalized. Test includes 60 questions. Test duration is 55 minutes. It is the student's responsibility to be on time for the administration of exams. **No extra time will be given to those who show up late for the exam. For your final exam you have to be in class on August 2-nd at 10:40 am.**

**On-line quizzes** will include questions on definitions and major concepts. The main idea is to skim through the textbook before the lecture to get familiar with terminology, strategies, and main concepts. Quizzes will be set up via iCollege. Students must take a full responsibility to check quizzes availability. Students are responsible

to use trustful internet connection. **There will be absolutely no allowed make-up on-line quizzes. One on-line quiz with lowest grade will be dropped.**

**Quizzes in class:** these quizzes will be given in class as questions with short answers or multiple choice. Quizzes will cover conceptual questions, definitions and reactions. There are 7 quizzes per semester. **One on-line quiz with lowest grade will be dropped. There will be absolutely no make-up quizzes allowed.**

**On 07/01/2019 the second part of the course BioChemistry will start. Students are required to Join to EdPuzzle for an access to the learning supplemental materials and questions. Use the link: <https://edpuzzle.com/join/wodlifd> to register for the class.**

**Chemistry Department Policy on Student Conduct and Integrity:** The Georgia State University Policy on Academic Honesty is in force in this course. This includes but is not necessarily limited to infractions in the area of *plagiarism, cheating on examinations, unauthorized collaborations, falsification, and multiple submissions*. This policy is published in *On Campus: the Student Handbook*, which is available to all members of the university community.

All examinations must represent your individual effort, with no unauthorized aid. To either *give* or *receive* unauthorized information during an examination is cheating, as is the use of *any* unauthorized supplementary material. In addition, all laboratory work performed in conjunction with this course must represent your individual effort. Only original data obtained by your own *in-laboratory* experimentation are permitted to be used, except when *expressly authorized* by your laboratory instructor. Data from supplementary sources, handbooks, reference literature, etc. must be *clearly referenced* (title, author, volume, pages(s), etc.). Falsification or destruction of data constitutes cheating as well. Conduct disruptive of class, examinations, or laboratories *or* falsification or destruction of information related to chemistry courses will be taken as a violation of the policies of the Board of Regents of the University System of Georgia and the Georgia State University Student Code of Conduct, Section 6.0. Any suspected offenses may be referred to the Chairman of the Department or the Dean of Students for appropriate disciplinary action.

**Americans with Disabilities Act Statement:** If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the Office of Disability Services.

**Affirmative Action Statement:** Georgia State University adheres to affirmative action policies designed to promote diversity and equal opportunity for all faculty and students.

**Statement of Non-Discrimination:** Georgia State University supports the Civil Rights Act of 1964, Executive Order #11246, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act. No person shall, on the basis of age, race, religion, color, gender, sexual orientation, national origin or disability, be excluded from participation in, or be denied the benefits of, or be subjected to discrimination under any program or activity of the college.

**Syllabus and Assignments:** The foregoing provides a *general* plan for the course, *deviations from which may be necessary*. The instructor will announce any such changes in class.

Please remember: One of the best ways to excel in this course is to work on a daily basis.

**Tentative schedule: Summer 2019 (might be changed, under instructor's discretion)**

Date	session	topic	Activities in class	Activities out of class
<b>PART I – ORGANIC CHEMISTRY</b>				
06/10 Monday	Orientation. Introduction into Organic chemistry: Alkanes, alkenes, alkynes, aromatic compounds. Classification	Chapter 12		<b>Quiz Chapter 12 on-line</b> <b>Flash cards</b> : nomenclature of alkanes with structures by 06/14
06/12 Wednesday	Aromatic compounds and Alcohols.	Chapter 12/13		<b>Quiz Chapter 13 on-line</b>
06/14 Friday	Phenols, ethers, thiols, sulfides, disulfides and amines	Chapter 13/18.1-18.3	<b>Quiz 1</b>	
06/17 Monday	Amines, aminoacids (preview)	Chapter 18.1-3,19.1		<b>Quiz Chapter 18_19 on-line</b> <b>Flash cards</b> : essential aminoacids structures and nomenclature by 06/19
<b>06/19 Wednesday</b>			<b>Test 1</b>	
06/21 Friday	Aldehydes and ketones	Chapter 14		<b>Quiz Chapter 14 on-line</b>
06/24 Monday	Carboxylic acids	Chapter 16/18.5,18.6	<b>Quiz 2</b>	
06/26 Wednesday	Carboxylic acids derivatives (esters and amides(chapter 18.5,6)		<b>Quiz 3</b>	<b>Quiz Chapter 16_19 on-line</b>
<b>06/28 Friday</b>	<b>12:00 – 1:40</b>	<b>ORGANIC CHEMISTRY</b>		<b>MIDTERM EXAM (12, 13, 14, 16, 18) REQUIRED</b>
<b>PART II – BIOCHEMISTRY</b>				
<b>Join to EdPuzzle link: <a href="https://edpuzzle.com/join/wodlifd">https://edpuzzle.com/join/wodlifd</a> -learning supplemental materials and questions</b>				
07/01 Monday	Carbohydrates	Chapter 15		<b>Quiz Chapter 15 on-line</b> <b>Flash cards</b> : mono and polysaccharides <b>EdPuzzle</b> Carbohydrates I & II
07/03 Wednesday	Carbohydrates/Lipids	Chapter 15/17	<b>Quiz 4</b>	<b>Flash cards</b> : structures and names of common fatty acids <b>EdPuzzle</b> Lipids I & II
<b>07/05</b>	<b>MIDPOINT: THE LAST DAY TO WITHDRAW FROM CLASS WITH “W”</b>			
07/05 Friday	Lipids/ amino acids	Chapter 17/19		<b>Quiz Chapter 17 on-line</b>
07/08 Monday	Amino acids and proteins	Chapter 19	<b>Quiz 5</b>	<b>EdPuzzle</b> Amino acids
07/10 Wednesday	Enzymes and Vitamins	Chapter 20		<b>Quiz Chapters 19&amp;20 on-line</b> <b>1. Flash cards</b> : classification of enzymes and common enzymes & their function <b>2. Flash cards</b> : optimum pH for selected Enzymes, location and substrate. <b>3. Flash cards</b> : water soluble and fat-soluble vitamins.
<b>07/12 Friday</b>			<b>Test 2</b>	
07/15 Monday	Nucleic acids and Protein Synthesis. DNA, RNA	Chapter 21		<b>Quiz Chapter 21 on-line</b> <b>Table</b> : Codons in mRNA
07/17 Wednesday	DNA/RNA	Chapter 21	<b>Quiz 6</b>	
07/19 Friday	Metabolic pathway for carbohydrates	Chapter 22		<b>Quiz Chapter 22 on-line</b>
07/22 Monday	Metabolic pathway for lipids and amino acids	Chapter 22/24		<b>Quiz Chapter 24 on-line</b>
07/24 Wednesday	Metabolism and energy production	Chapter 24/23	<b>Quiz 7</b>	
07/26 Friday		Chapter 23		<b>Quiz Chapter 23 on-line</b>
<b>07/29 Monday</b>			<b>Test 3</b>	
<b>08/02 Friday</b>	<b>10:45 – 1:15</b>	<b>BIOCHEMISTRY</b>		<b>FINAL EXAM (15,17,19,20,21,22,23,24) REQUIRED</b>