

Instructor: Dr. Greg Pillar**Email:** pillarg@queens.edu**Office Hours:** M, TH 1:00-4:00pm, T 9:00-11:00am, any time my door is open, or by appointment**Office:** Walker 119, 337-2260**Course Website:** <http://www.pillarenvironmental.com>**Text:** *Introduction to General, Organic, and Biochemistry*, by Bettelheim, Brown, Campbell, and Farrell, 8th ed.**Prerequisite:** CHEM101 or High School Chemistry**Course Objectives:** The overall objective of this introductory course is to give students a basic understanding of concepts in organic and biochemistry and their application/role in modern-day life. By the end of this course students should be able to:

- Systematically name organic compounds and draw structures of organic compounds based on their names
- Describe the role of organic functional groups in biological compounds and drugs
- Explain the structure and function of the major classes of biological molecules

Course Requirements/Grading:

Participation	5%
Homework	20%
Quizzes	15%
Exams (4 lecture)	40%
Final Exam	<u>20%</u>
Total: 100%	

Grading Scale:

A	93	C+	77
A-	90	C	73
B+	87	C-	70
B	83	D	60
B-	80	F	< 60

TOPICS COVERED: **tentative**

Chapter 10	Organic Chemistry	
Chapter 11	Alkanes	
Chapter 12	Alkenes	
Chapter 13	Benzene and its Derivatives	(Exam 1 – week of January 28 th)
Chapter 14	Alcohols, Ethers and Thiols	
Chapter 16	Amines	
Chapter 17	Aldehydes and Ketones	
Chapter 18	Carboxylic Acids	
Chapter 19	Esters, and Amides	(Exam 2 – week of February 25 th)
Chapter 22	Proteins	
Chapter 23	Enzymes	
Chapter 15	Chirality	
Chapter 20	Carbohydrates	(Exam 3 – week of March 17 th)
Chapter 21	Lipids	
Chapter 25	Nucleic Acids and Heredity	
Chapter --	Environmental Toxicology	(Exam 4 – week of April 14 th)
Chapter --	Other Topics in Organic/Biochemistry	

The topics covered on each exam may vary slightly from the topics list above, depending on the material actually covered in class.

Attendance Policy: Students are expected to attend all classes and are responsible for daily assignments. It is well known and documented that students who attend class learn more than those who do not. You are allowed to miss two class sessions over the semester with no penalty. Each class is worth two points towards your participation grade. After your two excused absences missing class will result in a 0 for participation for that day. If you come to class late you will only be given 1 pt towards your participation score. If you miss a class to participate in a Queens-related activity, you will still be counted absent, however, you may make up this loss of participation by submitting extra chemistry problems chosen by me. Please treat fellow students with respect; arrive on time and stay until the period ends. One participation point will be deducted if you arrive late or leave early without prior approval.

Participation = attendance, speaking during discussion, in class assignments, being on time, and paying attention during class.

Late Work: Late assignments and papers are subject to a 5% grade reduction per weekday with a 50% maximum (i.e. ten days' worth). Late assignments will not be accepted after 2 weeks.

Quizzes, Exams, and the Final Exam: Quizzes, will consist of multiple-choice and short answer questions covering course material and readings for that week. Quizzes or in class assignments may not be made up. Students are allowed to miss one quiz/in class assignment without penalty (i.e. lowest quiz score will be dropped). Exams will include material covered since the previous exam. The final exam will be cumulative, covering all material presented during the semester.

If you miss an exam, your grade will be a zero. There are NO make-up exams. If you have arranged with me to miss an exam, its value will be added to the final exam (i.e. an excused absence at the first exam will make the final exam worth 30% of the course grade).

Exam Review Sessions: Review sessions will be offered one or two days before each exam. The review sessions will be held in the evening at a time and place to be determined. The purpose of the review sessions is to provide students with additional opportunities to ask questions and review course material. I may or may not prepare material to cover and will rely mostly on questions posed by the students.

Course Communication: At times course materials such as lecture notes, assignments, and study guides will be posted on the course website (some of these materials may only be found on the course website and will not be handed out in class). The course website will also be used to post important messages and changes to the course schedule. In addition, at times it may be necessary to deliver course material or communication via email. All email communication will be done using your official Queens University of Charlotte email address. You will be expected to check your email address frequently as information such as deadlines, review sessions, and changes to the course schedule will be sent to this address. You will be responsible for all material posted on the course website or sent to your official school email address.

Open Door Policy: If you have any questions, problems or concerns related to this class or anything else, please feel free to stop by my office at anytime. I am here to help you understand the course material and to assist you through your studies. Review/study sessions are available on a one on one basis or in a group setting for material covered in either lecture or lab.

Other Policies: Please be considerate of your fellow students and instructor. Please do not eat during class (drinks are okay in lecture). Please turn off all cell phones, pagers, or other communication devices. If you need to have your cell phone on please keep it on vibrate and notify me before class starts. Students are expected to arrive on time and stay in class until the period ends. Please avoid disrupting the class if you arrive late or need to leave early.

STUDY HINTS AND ADVICE:

1. **Read the text before coming to class.** This course will begin slow but then proceed on a fast pace throughout the whole semester. No matter how clear the lecture may seem, if it is your first encounter with the material, you will probably not retain much of the content of the lecture. On the other hand, if you have read the course material in advance, at your own pace, the lecture will make a lot more sense and it will improve your understanding.
2. **Work problems/homework *religiously and independently*.** You won't be able to grasp a concept or theory completely and correctly unless you try to solve the problems by yourself. It is extremely important to do the homework problems after each class. Mistakes at this point can be very helpful and easily fixed. Try several approaches. If you need to look at the answer, come back later to the same problem without looking it up. When working problems on a multiple choice test, it is often useful to eliminate answers you know are wrong. Even if you don't know which of the four or five answers is the right one, if you eliminate even one incorrect answer your odds of choosing the correct answer are improved considerably.
3. **Form or join a study group.** Working together with other students is one of the most effective ways to study chemistry. You can often get immediate help from your study partners on difficult concept, and helping other people is an excellent way to make sure that you have a good understanding of the material. It's often more useful to explain to someone else how to work a problem than it is to work it yourself.
4. **Re-write your lecture notes.** Often times you may be rushed during class to get all the notes down and you may abbreviate or not have time to write everything out. Re-writing your notes (especially that same day) will help you to fill in blanks and missed pieces of information that you didn't have time to jot down. Additionally, re-writing your notes forces you to re-read what you wrote and will help you understand and learn the material (repetitive exposure to class material.)
5. **Ask questions!!** There are no stupid questions. Chances are if you are confused or unsure about something, someone else is as well. Don't be afraid to ask questions at anytime. Additionally, don't be afraid to stop by my office to ask questions. I am here to help you throughout your studies.
6. **Attend review sessions.** Even if you feel you understand the course material, review sessions provide an opportunity (similarly with study groups) to reinforce the course material. If you do have questions, it provides yet another opportunity for you to ask your instructor additional questions.
7. **START STUDYING FOR EXAMS EARLY.** Avoid waiting to the last minute to study. If you "cram" you may be ok for the exam but you will probably not remember the material for the final exam or after that. Start studying roughly a week before the exam and study in short time segments.