Organic and Biological Chemistry Syllabus
Chem 101-01 Fall 2021
*subject to change by the instructor

Day/Time: TR 10:50 am – 12:05 pm   Location: SSMB 127   CRN: 12942

Instructor Information:
Mrs. Chandra “Cat” Potter   E-mail: cpotter@cofc.edu   Office: SSMB 122
(she, her, hers)

Office Hours: via Zoom (Use link in Oaks to login)
   Monday 2-3 pm
   Tuesday 9:30 -10:30 am
   Wednesday 2-3 pm
   Thursday 12:30-1:30 pm
   or by appointment, email to schedule

Co-requisite: Chemistry 101L

Required Materials: Chemistry in Context, 10th ed, with Connect access for online homework, and a scientific calculator

Course Description: A course designed to meet the needs of both the non-science major and the students entering allied health fields. Emphasis is placed on basic chemistry concepts, giving the student a strong chemical basis to understand pressing issues related to the environment and public health such as climate change and pollution. Topics include sources and types of air pollution, ozone layer chemistry, the molecular basis of the greenhouse effect, water pollution and purification, and energy systems (fossil fuels, nuclear power, and renewables).

Student Learning Objectives:
1. Critique and give example of how understanding and applying chemistry is a means to address global sustainability, including the important issues of: the air we breathe; the water we drink; protection of the ozone layer; global climate change; alternatives for energy sources and storage; and the threats of acid rain and ocean acidification.
2. Demonstrate the ability to solve a range of chemistry problems by applying the skills of mathematical problem solving and understanding of the metric system, significant figures, unit conversion factors, symbols for chemical reactions, and chemical principles.
3. Describe how energy changes in a chemical system are quantified as the substances in the system change state or temperature or undergo chemical reactions.
4. Define the atomic structure and energy levels of an element and explain how they are represented.
5. Explain how the information in the Periodic Table can be used to predict polarity of chemical bonds and the geometry and polarity of chemical substances.
6. Explain how nuclear reactions change elementals structure and discuss how nuclear chemistry is important in medicine, energy production, and warfare.

Responsibilities: The instructor is here to explain the material and help you to the best of their time and ability. However, the burden of learning is upon you, the student. It is expected that for every hour spent in lecture that you will spend a minimum of 2-3 hours of study. In order to succeed, it is
necessary for the student to actively participate in learning. Therefore, prepare for class every day. You will be asked to participate in the class discussions. You are always encouraged to ask questions and contribute ideas to class.

**Email:** Email is considered an official method for communication at the College of Charleston. If a student wishes to have email redirected from their official college issued account to another email address, they may do so, but at their own risk. Having email redirected does not absolve the student from the responsibilities associated with official communication sent to his or her College account. Students are expected to check their College of Charleston official email on a frequent and consistent basis.

**Electronics Device Policy:** Devices whose usage is prohibited in class at any time are: pagers, cell phones, radios, TV, CD, DVD, and MP3 players and similar devices. Devices that are allowed to be used at certain times during class, except during tests, exams and quizzes are laptops, handheld computers, PDAs, electronic pens, calculators, and similar devices. The sound must be off unless otherwise specified by the instructor. During tests, exams, and quizzes no electronic devices (except approved calculators) are allowed to be on or in sight, unless otherwise specified by the instructor, including iWatches and Fitbit-like wearable devices that can receive messages. Remember to be respectful of the people around you and of your own ability to receive a top-notch education. Reduce distractions.

**Academic Integrity:** Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Each incident will be examined to determine the degree of deception involved. Incidents where the instructor determines the student’s actions are related more to misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent. Students can find the complete Honor Code and all related processes in the Student Handbook at: http://deanofstudents.cofc.edu/honor-system/studenthandbook/.

Students should be aware that **unauthorized collaboration--working together without permission**-- is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer including copying answers from online sources), copying from others’ exams, fabricating data, and giving unauthorized assistance. Projects conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.
Organic and Biological Chemistry Syllabus
Chem 101-01 Fall 2021

*subject to change by the instructor

Attendance Policy: Attendance is expected at all classes. Students are responsible for all information presented in class. It is imperative that you attend class and also to arrive promptly. If you arrive late for a quiz, test, or the final exam, instructions will not be repeated nor will you receive additional time to complete the assignment. All absences must be communicated to the professor at the earliest possibility so that appropriate accommodations may be arranged.

OAKS: OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus and class materials and grades for each assignment, which will be regularly posted.

Tests (25% of grade): There will be three (3) tests covering the material from the lectures and the text. Tests that are missed cannot be made up and will count as zero. The only exception to this is if a student has a documented, justifiable excuse (as judged by the instructor).

Quizzes (20% of grade): During the semester quizzes will be given using on-line resources. The quizzes will be based on the material covered in class and assigned readings, and will be used to assess where additional effort is needed to ensure understanding of critical elements in the course material. Quizzes will be accessed through the CONNECT interface at the McGraw Hill website or the class Oaks page. Students will need to register the first week of classes using the access code that comes with their book. The quizzes will close at 11:59 pm on the day they are due. Whatever your progress is at that point in time will be the graded result you will receive.

LearnSmart/Homework Assignments (25% of grade): An interactive learning tool from McGraw Hill (LearnSmart) developed for this course will be the graded homework system used to develop your skills. Each LearnSmart module is intended to take an average of 60 minutes to complete. The LearnSmart modules will close at 11:59 pm on the day they are due. Additional problem sets may be given for the students to practice and will be available on Oaks.

Discussion (10% of grade): A weekly discussion prompt related to the content of the week will be provided by the instructor. You will need to participate in these discussions amongst a small group, pre-assigned. You must engage in the weekly discussion two times, once by responding directly to my prompt and once to another student’s response. In addition to demonstrating professionalism in your posts (see below), discussion participation will be evaluated based on relevance to the topic and novel contributions. Reduced or no credit will be given for posts that reiterate a point already made in the same thread, are unfocused, difficult to understand or otherwise make no meaningful contributions (e.g., “Agreed!” or “Great idea.”).

Final Exam (20% of grade): The Final Exam will be a cumulative test administered in person on December 13th from 8 to 10 am in our usual classroom. More details will be announced as the semester progresses.

Late Work: Work not submitted by scheduled deadlines will not be accepted. Extenuating circumstance may be discussed on an individual basis with the professor, the earlier, the better. With this in mind, do not procrastinate. Failure to plan does not constitute an emergency or unforeseeable circumstances.
Organic and Biological Chemistry Syllabus
Chem 101-01 Fall 2021
(subject to change by the instructor)

Grading Weight:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Assignments</td>
<td>25%</td>
</tr>
<tr>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92% &amp; above</td>
</tr>
<tr>
<td>A-</td>
<td>90 - 91%</td>
</tr>
<tr>
<td>B+</td>
<td>87 - 89%</td>
</tr>
<tr>
<td>B</td>
<td>82 - 86%</td>
</tr>
<tr>
<td>B-</td>
<td>80 - 81%</td>
</tr>
<tr>
<td>C+</td>
<td>77 - 79%</td>
</tr>
<tr>
<td>C</td>
<td>72 - 76%</td>
</tr>
<tr>
<td>C-</td>
<td>70 - 71%</td>
</tr>
<tr>
<td>D+</td>
<td>67 - 69%</td>
</tr>
<tr>
<td>D</td>
<td>60 - 66%</td>
</tr>
<tr>
<td>F</td>
<td>below 60%</td>
</tr>
</tbody>
</table>

Online Professionalism: Please abide by the following rules pertaining to online OAKS discussions:

- Tend your threads. If you start a conversation in an OAKS discussion forum, reply to those who contribute with their responses.
- Do not type in all capital letters aside from acronyms.
- Think before you post, proofread. Once posted, it can’t be undone.
- We do not have to agree on everything, but we can all remain professional and collegial.
- Be forgiving. Anyone can make a mistake. We are all learning together.

Disability Services: The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying the instructor as soon as possible, at least one week before accommodation is needed.

Mental & Physical Wellbeing: At the college, we take every students’ mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843.953.5520). And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors at http://counseling.cofc.edu or 843.953.5640, 3rd Robert Scott Small Building) or the Students 4 Support (certified volunteers through texting "4support" to 839863, visit http://counseling.cofc.edu/cct/index.php, or meet with them in person 3rd Floor Stern Center). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

Food & Housing Resources: Many CofC students report experiencing food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support (http://studentaffairs.cofc.edu/about/salt.php). Also, you can go to http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php to learn about food and housing assistance that is available to you. In addition, there are several resources on and off
Organic and Biological Chemistry Syllabus
Chem 101-01 Fall 2021
*subject to change by the instructor

campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need.

Inclusion: The College of Charleston offers many resources for LGBTQ+ students, faculty and staff along with their allies.

Preferred Name and Pronoun Information
On Campus Gender Inclusive facilities
Campus Resources
College of Charleston Reporting Portals
National Resources for Faculty & Staff
GSEC Reports
Documenting LGBTQ Life in the Lowcountry (CofC Addlestone Library Special Collections Project)
College of Charleston Quality Enhancement Plan (QEP)
Articles about CofC and LGBTQ+ Issues

Religious Accommodation for Students: The College of Charleston community is enriched by students of many faiths that have various religious observances, practices, and beliefs. We value student rights and freedoms, including the right of each student to adhere to individual systems of religion. The College prohibits discrimination against any student because of such student's religious belief or any absence thereof.

The College acknowledges that religious practices differ from tradition to tradition and that the demands of religious observances in some traditions may cause conflicts with student schedules. In affirming this diversity, like many other colleges and universities, the College supports the concept of "reasonable accommodation for religious observance" in regard to class attendance, and the scheduling of examinations and other academic work requirements, unless the accommodation would create an undue hardship on the College. Faculty are required, as part of their responsibility to students and the College, to ascribe to this policy and to ensure its fair and full implementation.

Inclement Weather, Pandemic or Substantial Interruption of Instruction: If in-person classes are suspended (including by not limited to one or more students being absent for an extended period of time due to COVID-19, quarantine or isolation), faculty will announce to their students a detailed plan for a change in modality to ensure the continuity of learning to the extent that information is available. All students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools. Home access to a scanner and printer would also be beneficial.

Academic Support Services, The Center for Student Learning: The center student learning’s (CSL) academic support services provide assistance in study strategies, speaking and writing skills, as well as course content. Services include tutoring, supplemental instruction, study skills appointments, and workshops. Students of all abilities have become more successful among these programs throughout their academic career and the services are available to you at no cost. For more information regarding these services please visit the CSL website at http://csl.cofc.edu or call 843.953.5635
Tips For Success:

- Attend all classes
- Be an active learner
- Put in 2-3 hrs/day for each lecture class period.
- Read textbook before & do homework problems after each lecture
- Use resources to study – chapter study goals, class notes, sample problems, homework, end-of-chapter reviews, and key terms in textbook
- Show respect for others. For everyone to learn, students must feel free to share ideas and ask questions in a non-judgmental environment. Read and benefit from others that may have different experiences and viewpoints than your own. You are welcome to disagree, but please do so respectfully.
- Stay Healthy
- Don’t procrastinate.