CHM3218 – Organic Chemistry/Biochemistry 2

Instructor   **Office Hours**
Alix Rexford   Tues 11:00-12:00 pm
LEI 302   Zoom: 277 621 8481   Thurs 3:30-4:30 pm
Alix.rexford@chem.ufl.edu

Teaching Assistants
Alix Chamberlain (achamberlain@chem.ufl.edu) Zoom: 814-815-8104   Wed 4:00-5:30 pm
Ahram Kim (ahramkim@chem.ufl.edu)   Zoom: 342 902 2906   Tues 8:00-9:30 pm
Kevin Mai (kevin.mai@chem.ufl.edu)   Zoom: 533-310-8134   Tues 9:30-11:00 am
If you cannot access Zoom during lecture please email a TA using "Zoom help" in the subject line

Learning Assistants
Matthew Petrides
Emily Alayeto
Daniel Koppel
Gianne Guevarra
Nicholas Gomez

Recommended Texts
Lehninger Principles of Biochemistry
Garrett & Grisham Biochemistry

Prerequisites
CHM 3217 or CHM2211 or permission of the instructor.

Course Objectives
This class covers all of the material commonly found in undergraduate biochemistry courses, with a special emphasis on using concepts from organic and physical chemistry to help students better understand biological chemistry. Topics will include amino acids and proteins, enzyme structure, mechanism, and kinetics, primary metabolism, nucleic acid structure, and metabolism.

Class Meetings
Class meets every MTWF 2:00 – 3:15 pm. Attendance and participation is required.
Online classes will consist of ~45 min lecture followed by ~20 min small group discussions in breakout sessions. When time permits, we will reconvene in the main session to discuss our breakout sessions. Your breakout group will include the same 5-6 people every day and course assistants and instructors will be available to encourage discussion and help you to get unstuck. The goal of these breakout sessions is for students to work through applications of newly acquired knowledge to develop a deep understanding of essential concepts in biochemistry.

Grading
The final course grade will be based upon daily problems, participation in breakout sessions, and four exams.
Daily problems will be available on Canvas two days before they are due and will consist of 2 – 5 questions related to the prior lecture and/or the reading assignment for that day's lecture. Prior to completing the assignment, you should review your lecture notes from the previous day and read/watch

the recommended text/videos to get an introduction to the next day's topic. Problems will be due each day at 1:55 pm and will be graded on completeness of all questions and correctness of one question chosen at random.

Students will have ***roles in the breakout sessions*** that will help to foster a team dynamic. Roles will rotate throughout the course of the semester. Your participation in the group as a whole and performance in your team role will be evaluated by instructors, assistants, and teammates to determine your final score.

Exams will be available during course meeting times on the following dates:

Exam 1: May 29
Exam 2: June 19
Exam 3: July 24
Exam 4: August 14

The lowest exam score will be dropped so that final course grades will be calculated by the point distribution outlined below:

Assignment	Points
Daily problems	200 (5 pts each)
Exams	600 (200 pts each)
Participation & Attendance	200

The following letter grades will be assigned based upon total points accrued for all course work:
A: 900 – 1000 pts
B: 800 – 899.9 pts
C: 700 – 799.9 pts
D: 600 – 699.9 pts
F: below 600 pts

Makeup Policy
No makeup assignments or exams will be given. However, there is a policy of at least one dropped score per assignment (eg daily problems, exams, attendance), so missed assignments will count as the dropped assignment.

If an exam or assignment will be missed due to active military duty, religious holy days, or official University activities, the student is required to provide documentation of such absences at least **two weeks in advance** to schedule an early exam in advance of the in class exam. Assignments that are missed due to pre-excused absences will not be counted in the final grade.

Regrades and Grading Errors
Mistakes happen and grading errors can be especially frustrating. We will do our best to make sure that you are always kept up to date with your performance in the course and post your grades in a timely manner. It is your responsibility to make sure that your grade on Canvas reflects the scores you receive on assignments and bring it to our attention ASAP when you notice a discrepancy. If you feel that a grading error was made on a particular assignment you have **one week from the date the grade was posted to Canvas** to request a regrade. Regrades will include a rescore of the entire assignment and may result in a lower score. To request a regrade you should post a comment on the assignment in Canvas including the question that was graded incorrectly and **why you think your answer is correct**.

Student Responsibilities & Zoom Etiquette

You are expected to come to class on time and behave in a manner that is respectful to the instructor and to fellow students. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at a minimum.

All students should be **fully clothed during Zoom** sessions. During lecture, students will be muted and you may turn off your camera provided you have added a profile picture. This will help students and instructors get to know each other and hopefully decrease feelings of isolation. To ask a question during lecture you may raise your hand OR you may type a question in the chat window. TAs and LAs will answer your chat window questions and/or notify me when I need to address something. Please wait until you have been addressed to unmute yourself, and after you have asked your question, please re-mute yourself and put your hand down.

To add a profile picture go to: ufl.zoom.us/profile
To ask a question in Zoom: Click on the "Chat" button on the bottom of the screen and a chat window will appear
To raise your hand in Zoom: Click on the "Participants" button on the bottom of the screen and a window will appear. On the lower right of the window there is an option to raise your hand.

Lecture Schedule
A tentative schedule of lectures is available at the course e-Learning site

Study Methods
Students should be keeping up with suggested readings/videos each day for each day of class. Typical study time to be successful in a course is ~2-3 hours outside of the classroom per hour in the classroom, although some students may require more while others require less. This class meets 5 hours per week, so you should be able to dedicate ~15 hours per week to this class. I will be posting recordings of each day's lectures to the Canvas site. To keep you on track and engaged in the day's material, I have designed primer questions for each day's lecture, as well as review questions from the previous day's material. After reviewing lecture notes and doing the pre-class reading/videos, these daily problems should take about 1 hour.

If you are spending considerably more time on daily problems you need to **evaluate your study habits** to be more effective. Try taking notes during your pre-class reading/videos and make sure that you are seeing the big picture and not getting bogged down in the details. You can make bullet points of the key concepts and check that you are on the right track using the daily problems as a guide. Notes should not be copied directly from the text or video, but should be re-stated in your own words, and again, condensed to only include key concepts.

There is no required textbook, but I would recommend finding ANY college biochemistry textbook as those will have additional conceptual questions at the end of each chapter. Daily problems and breakout session assignments will be the only practice problems that I will assign. **Exams** will be open response questions that are similar in scope to breakout session assignments and the review questions in the daily problems.

Each breakout session group has their own Canvas page, where your session recorder can upload the session's video. You can also use the group page to post announcements or engage in discussions with just your group members. The main Canvas page discussion board will also be utilized for discussions with the entire class.

Academic Honesty

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Use of websites such as Chegg and CourseHero, among others, to complete graded assignments is in violation of both the University honor code and the websites' code of conduct and students who use such unauthorized resources will be investigated and earn a grade of zero for the assignment.

A note about online resources: There are dozens, if not hundreds, of really great resources that you can use to improve your understanding of the subject matter. In fact, I include AK lecture's YouTube series as recommended viewing for students who would prefer videos over reading textbooks. A good resource is one that helps you to think through a problem, not just shows you the answer. A good tutor will never tell you the answer, they will lead you to it on your own.

Course Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

Students with Disabilities

Students requesting disability accommodations must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. Please provide this as soon as possible as accommodations may take longer to arrange for online courses.

U Matter, We Care

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our online campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 911.

Honorlock

This course uses Honorlock for proctoring of during-term exams. Honorlock is UF's designated online proctoring service for classroom exams and quizzes that were previously in person but have moved online as part of the COVID-19 response effort. In order for you to take exams in this course you will need a government issued photo ID (or your Gator-1 ID), a working camera and microphone on your computer, a stable internet connection, and the Google Chrome browser (https://chrome.com) on your

computer. Before and during your exam you will need to follow the Honorlock proctor's instructions. Please familiarize yourself with the Honorlock student guide:

https://dce.ufl.edu/media/dceufledu/pdfs/Honorlock-Student-Guide-UF-Update.pdf

and the Honorlock Student Exam Preparation Information:

https://dce.ufl.edu/media/dceufledu/pdfs/Honorlock-Student-Exam-Preparation-Information.pdf