UCONN
UNIVERSITY OF CONNECTICUT

Class number: 4919, section 020
Course title: Principles of Biology I (Lecture)
Department of Molecular and Cellular Biology

Syllabus – Fall – Distance Learning/In-Person – 2021

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located on HuskyCT.

Course and Instructor Information

Course Title: BIOL 1107 Principles of Biology I *LECTURE*
Section/Time: 020 - Monday, Wednesday, Friday 1010AM-11AM
Prerequisites: Previous coursework in chemistry or concurrent enrollment in CHEM 1127 is *recommended*

Location: As of right now, we will plan to meet via Webex for the first 5 classes (Jan 19, 21, 24, 26, and 28) and then transition to MCHU 102. You are welcome to continue to join class via webex even after Jan 28 - the same link will be used to stream our class meetings. All course materials administered via HuskyCT. If a format change is required due to COVID, our backup plan is to continue to meet synchronously via Webex, as we will do for the first part of the semester.

Professor: Dr. Elizabeth Kline. You can call me Elizabeth or Dr. Kline

Office Hours/Review Sessions: Tuesdays 3-5PM, Fridays 1130AM-1230PM via webex at https://uconn-cmr.webex.com/meet/elizmkline. Webex will be used for office hours for the full semester. ALSO - You can make a 1 on 1 appointment with me via Calendly: https://calendly.com/kline_mcb/oneonone. This link is also posted in the left side menu of HuskyCT. This calendar syncs with my personal calendar, so there is no need to email to follow up after you schedule. If you do not have access to a webcam/mic but want to meet with me, send me an email to set up something face-to-face.

Email: kline@uconn.edu
I check my email frequently every day and on the weekends. If you email me and I do not get back to you within 24 hours, please feel free to email me again. You are not bothering me and I appreciate your reminders. Please be as specific as possible in your emails. If you are writing because you are feeling confused about course content, feel free to ask questions about particular pages or figures or slides. This will help me quickly respond to you!

Learning Resources and Course Materials

Required course materials should be obtained during the first week of class.

Texts are available through a local or online bookstore. The UConn Co-op carries many materials that can be shipped via its online Textbooks To Go service. For more information, see Textbooks and Materials on our Enrolled Students page.

Required Materials:

- *Biology – Dynamic Science,* 5th edition, Cengage. If this book is too pricey, use this free book: https://openstax.org/details/books/biology-2e
- *Laboratory Manual – BIOL 1107 Laboratory Manual Fall 2020/Spring 2021 edition.*
- HuskyCT - This course is facilitated using the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, know that you have 24x7 access to live chat, phone and support documents through www.ecampus24x7.uconn.edu.

Scientific Teaching:

- Learning is a process that occurs in **your** mind. You encounter new information and fit it into your pre-existing web of knowledge. Whether this process is successful depends not only on whether the item of knowledge was correctly conveyed, by whether it was connected accurately to your pre-existing knowledge. By identifying errors and gaps in what you already know, I hope to prevent misunderstandings and missed exam points. Therefore, I ask you to prepare before class using our textbook and the Cengage MindTap resources **so that during class we can work actively with the material instead of me just lecturing.** This will enable us to develop your ability to **apply what you've learned, earn the highest exam grades possible, and truly gain an understanding of and appreciation for the study of life.**

  Adapted from Dr. Dylan Audette

Other Resources:

- Academic Achievement Center https://achieve.uconn.edu/resources/
- Learning objectives – these will be posted in a google sheet labeled STUDY GUIDE linked in the left side menu of HuskyCT
- Computer and internet access – necessary in class and for exams. If access to a laptop is an issue for you, please let me know and I will be happy to assist and accommodate!

Course Description

Catalog Description: BIOL 1107 is an introductory course that is aligned with the University General Education Guidelines/Criteria for all CA3 (Group 3) Science and Technology courses and will acquaint students with scientific thought, observation, experimentation, and formal hypothesis testing, and enable students to consider the impact that developments in science and technology have on the nature and quality of life.

Additional faculty description: For many students, BIOL 1107 is their first course in biology. With that in mind, this course will spend time on building your ability to think and communicate like a scientist. This course will emphasize active learning during class time, which requires preparation and participation from all students for every class meeting.

Course Objectives

This course is designed to provide a foundation for more advanced courses in biology and related sciences. A successful student will be expected to be able to do the following by the end of the semester.

- Understand chemistry as it applies to life processes, including atomic structure, molecular bonding, and biological chemical reactions.
- Recognize biomolecules and how they are formed and degraded
- Understand cell structure and function including metabolic processes, membrane permeability, and inter- and intra-cellular communication
- Explain DNA's structure and the key processes related to gene expression (replication, transcription, translation)
- Understand genomics, the manipulation of DNA for research purposes, and Mendelian patterns of inheritance
- Understand basic human and comparative anatomy and physiology of organ systems

Course Grade

Grading Breakdown:
Lab = 45%
Worksheets (completion) = 10%
Quizzes (correctness) = 13%
Exam 1 = 5%
Exam 2 = 5%
Exam 3 = 5%
Exam 4 = 5%
Exam 5 = 5%
Final Exam, Date TBD = 7%

Exam Format: There will be 6 exams, each made up of 50 multiple choice questions. Exams 2-5 will have a slightly cumulative nature that is unavoidable as each unit builds on the foundations of the last. I will not, however, ask any specific questions about previous material on these exams. The 6th exam is different: it will be entirely cumulative and span all the material covered in the semester.

Exams will be given via HuskyCT. Lockdown browser is not required. All exams will be given in class during our normal section time (1010AM - 11AM). The exam will only be available at that time. If you have extended time accommodations from CSD, your exam duration will be appropriately adjusted. Email me to let me know whether you want to extend before 1010AM or after 11AM. It is not okay to miss another class because you are taking an 1107 exam, so plan accordingly.

Questions will be based on the learning objectives (see HuskyCT study guide). This usually works out to ~1-3 questions per learning objective.

If you are not in the eastern time zone and need an adjusted exam time, please let me know ahead of time and I'll be able to accomodate!

Lecture Descriptions: Slides are available on Husky CT. Every class meeting is recorded. I expect you to read the assigned readings (see class schedule) and view the pre-class video before attending class, as this will prepare you to participate.

Participation: *Students who attend and participate in class are more likely to succeed than those who do not.* It is essential to our classroom culture that you participate in class regularly. You will be asked to respond to questions and complete assignments on each class day and independently via a quiz on HuksyCT.

Laboratory: The laboratory course is outlined in the Lab Syllabus (see separate HuskyCT course). Your final lab grade will makeup 45% of your final BIOL 1107 grade. Email your lab instructor and/or Dr. Malinoski regarding questions about lab assignments, your lab grade, etc.

Grading: Grades for each exam are not curved. The only curve, if any, that counts toward your course grade will depend on overall class performance and will only be accounted for and calculated at the very end of the semester. **There is no extra credit.**

Late Work: If you do not turn in an assignment or quiz by the day before the corresponding exam AND you have not reached out to me to discuss an extension, you will not receive credit for those assignments and quizzes. For example, if exam 1 were on September 20, your assignments and quizzes leading up to exam 1 must be in by September 19 at 1159PM EST.

Policies

Excused Absences: All classes are recorded and while I would love to have you in class and know that participation is associated with better grades, attendance is not required. Excused absences are most important in the case of a missed exam.

- *Communicate with me as soon as possible.* I will be more likely to excuse an absence and offer a makeup exam or assignment credit if I know about it ahead of time. If you are feeling ill, contact me **before** the missed class or exam. You **cannot** request a makeup exam if you have already STARTED the exam. If you get sick in the middle of taking an exam, your best bet is to just try to finish as best you can. If you are feeling sick and think you might not be well by exam day, don't hesitate to ask for an extension.
- *A few things that might qualify for an excused absence from an exam:*
    - Illness for yourself or a dependent - again, let me know ASAP so i can reschedule you!
    - Automobile accident, communicated about ASAP
    - Death or wedding in the immediate family, communicated about before the missed absence
- *A few things that will **not** qualify for an excused absence from an exam:*
    - *Oversleeping*

- *Misreading the syllabus*
- *Attending a meeting*
- *Conflict with another class/multiple exams in 1 day*

I'm really lenient with excused absences. Just ask for what you need. I'm here to support you learning not punish you or make your life harder.

Makeup Exams: Makeup exams are only available to students who have an excused absence. **Prior notice is necessary.** If you miss an exam unexpectedly because of last-minute illness or accident, contact me as soon as possible. Contact me via email to schedule your makeup exam.

Exam Timings: All exams will be held via HuskyCT during our class meeting time. There is no need to log into Webex or show up to MCHU 102 on exam days. Exam dates are subject to change, though no changes are anticipated at this time. LockDown Browser is not required for exams.

Exams for students working with the Center for Students with Disabilities: If you have a disability, please do not hesitate to work with me for exam or classroom accommodations. The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please feel free to discuss options for class accommodation with me. Students needing special accommodations should work with the University's Center for Students with Disabilities (CSD). You may contact CSD by calling (860) 486-2020 or by emailing csd@uconn.edu. If your request for accommodation is approved, CSD will send an accommodation letter directly to your instructor(s) so that special arrangements can be made. (Note: Student requests for accommodation must be filed each semester.)

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from http://www.blackboard.com/platforms/learn/resources/accessibility.aspx)

Academic Integrity: UConn's policy – A fundamental tenet of all educational institutions is academic honesty; academic work depends upon respect for and acknowledgement of the research and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned.
Academic misconduct includes, but is not limited to:

- Providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g. papers, projects, exams)
- Any attempt to influence improperly (e.g. bribery, threats) any member of the faculty, staff, or administration of the University in any manner pertaining to academics or research
- Presenting as one's own work the ideas or words of another for academic evaluation
- Doing unauthorized academic work for which another person will receive credit or be evaluated
- Presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved

A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation and shall be subject to sanctions and other remedies described in The Student Code at http://www.dos.uconn.edu/.

Feedback and Grades: I will make every effort to provide feedback and grades within 1 week of submission. To keep track of your performance, check MyGrades on HuskyCT. You should be able to calculate your own grade at any point by using the grade calculator posted under course content.

Copyright: My lectures, notes, handouts, and displays are protected by state common law and federal copyright law. They are my own original expressions and I have recorded them prior or during my lecture to ensure that I obtain copyright protection. Copyrighted materials within the course are only for the use of students enrolled in the course for purposes associated with this course and may not be retained or further disseminated.

Student Responsibilities and Resources

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. This section provides a brief overview of important standards, policies and resources.

Student Code

You are responsible for acting in accordance with the University of Connecticut's Student Code Review and become familiar with these expectations. In particular, make sure you have read the section that applies to you on Academic Integrity:

- Academic Integrity in Undergraduate Education and Research
- Academic Integrity in Graduate Education and Research

Cheating and plagiarism are taken very seriously at the University of Connecticut. As a student, it is your responsibility to avoid plagiarism. If you need more information about the subject of plagiarism, use the following resources:

- Plagiarism: How to Recognize it and How to Avoid It
- Instructional Module about Plagiarism
- University of Connecticut Libraries' Student Instruction (includes research, citing and writing resources)

Netiquette and Communication

At all times, course communication with fellow students and the instructor are to be professional and courteous. It is expected that you proofread all your written communication, including discussion posts, assignment submissions, and mail messages. If you are new to online learning or need a netiquette refresher, please look at this guide titled, The Core Rules of Netiquette.

Adding or Dropping a Course

If you should decide to add or drop a course, there are official procedures to follow:

- Matriculated students should add or drop a course through the Student Administration System.
- Non-degree students should refer to Non-Degree Add/Drop Information located on the registrar's website.

You must officially drop a course to avoid receiving an "F" on your permanent transcript. Simply discontinuing class or informing the instructor you want to drop does not constitute an official drop of the course. For more information, refer to the:

- Undergraduate Catalog
- Graduate Catalog

http://catalog.grad.uconn.edu/grad_catalog.htmlgrad_catalog.html

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

Additional informal formative surveys may also be administered within the course as an optional evaluation tool.

Course Calendar

All dates are subject to change as the semester progresses. Plan to be available for each class day. The schedule is posted on HuskyCT.