

Lecture Syllabus for Principles of Biology I – Summer 2019

Lectures: Tuesdays & Thursdays 5:45pm- 7:29pm in 615 Hunter West.

Course Lecturer: Dr. S. Sheppard-Lahiji

Office Hours Vary (A google calendar located on blackboard will provide dates and times)

Email: Sheppard@genectr.hunter.cuny.edu

Texts and course materials:

1. Campbell Biology 11th edition (Custom for Principles of Biology at Hunter College)
Jane B. Reece. ISBN-10: 1323623450 (ISBN-13: 9781323623459)

Custom edition is a looseleaf, 3-hole punched and contains fewer chapters than non-custom text.

Alternative Campbell text option: Campbell ebook ISBN-10: 0134446410 (ISBN-13: 9780134446417)

Older editions of the textbook are acceptable

2. Alaie and Jaeger (Spring 2019) Principles of Biology I Laboratory Manual.
ISBN: 978-1-5339-1116-2

Course documents: check Blackboard regularly

Learning Outcomes & Classroom Expectations:

As a result of this course experience, students should be able to

1. employ the scientific method to identify problems or questions, develop hypotheses, design experiments to test hypotheses, and reach conclusions.
2. understand the interrelationships, hierarchies and cooperation among various physiological systems.
3. apply knowledge of molecular biology, DNA and protein metabolism to the understanding of broad classes of pathologies.
4. read relevant current biological literature and write short essays about the experimental work, assumptions, conclusions and significance of the readings.
5. become critically engaged with the material and be active participants in the classroom/community

Hunter College Academic Integrity Policy: Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and/ or Learning) consult the **Office of AccessABILITY** located in Room E1124 to secure necessary academic accommodations. For further information and assistance please call (212- 772- 4857)/TTY (212- 650- 3230).

Summer 2019 Lecture Schedule

	M	T	W	Th	F	Sa/Su
May			29	30 Course Intro Carbon & Molecular Diversity (Ch. 4) Structure & Function of Large Molecules (Ch. 5)	31	1/2
June						
	3	4 Structure & Function of Large Molecules (Ch. 5)	5	6 Structure & Function of Large Molecules (Ch. 5) Membrane Structure and Function (Ch. 7)	7	8/9
	10	11 Membrane Structure and Function (Ch. 7) Tour of the Cell (Ch. 6)	12 <i>WD period ends</i>	13 Tour of the Cell (Ch. 6) An Introduction to Metabolism (Ch. 8)	14	15/16
	17	18 An Introduction to Metabolism (Ch. 8) Cellular Respiration & Fermentation (Ch. 9)	19	20 Cellular Respiration & Fermentation (Ch. 9)	21	22/23
	24	25 LECTURE EXAM I	26	27 The Cell Cycle (Ch. 12)	28	29/30
	1	2 The Cell Cycle (Ch. 12) Meiosis (Ch. 13)	3	4 College Closed	5	6/7

July	8	9 Mendel and the Gene Idea (Ch. 14)	10	11 Mendel and the Gene Idea (Ch. 14) Chromosomal Basis of Inheritance (Ch. 15)	12	13/14
	15	16 Chromosomal Basis of Inheritance (Ch. 15)	17 <i>Last day to withdraw</i>	18 LECTURE EXAM II	19	20/21
	22	23 Molecular Basis of Inheritance (Ch. 16)	24	25 Molecular Basis of Inheritance (Ch. 16)	26	27/28
Aug	29	30 Molecular Basis of Inheritance (Ch. 16) From Gene to Protein (Ch. 17)	31	1 From Gene to Protein (Ch. 17)	2	3/4
	5	6 Gene Expression (Ch. 18)	7	8 Gene Expression (Ch. 18)	9	10/11
	12	13 FINAL EXAM	14 End of term			

Audio recordings of lectures are allowed.
Video recordings of lectures are not allowed.

NOTE: Lecture slides ARE NOT POSTED. Most slides have exact or comparable figures in the textbook, but you are expected to take notes on slides shown in lecture. In addition to using the textbook as the basis for lecture, Dr. Sheppard-Lahiji will discuss material outside of your text, including figures and graphs. Some supplemental information may be posted on blackboard.

There are **NO MAKEUP EXAMS in BIOL 100.**

LECTURE: 700 pts

Please note that if your 120 pt cumulative exam score is higher than either your first, second or third lecture exam scores, the cumulative exam score will replace the lowest of those scores (and count double). For instance, if you score a 106 on exam #1, a 68 on exam #2, an 80 on exam #3 and you earn 98 points on the cumulative portion of the 4th exam, we will drop your score from exam #2 and count your 98 score twice. Your total will be 106, 98, 80, 98, (+ your score from the non-cumulative portion of the 3rd exam which cannot be dropped). Please note that **short responses cannot be dropped**.

LAB: 300 pts

Students will take weekly quizzes, a laboratory exam based on the exit questions within the lab manual, and an in-class lab writeup on enzymes I and enzymes II.

COURSE GRADE SUMMARY:

Lecture Exam 1	=	195 pts (120 pts MCQ ; 75 pts short responses)
Lecture Exam 2	=	195 pts (120 pts MCQ ; 75 pts short responses)
Final Lecture Exam	=	240 pts (120 pts MCQ : 120 pts cumulative MCQ)
In lecture quizzes	=	70 pts (administered via blackboard)
Lab quizzes	=	100 pts
Exit Question Exam	=	100 pts
In class lab assignments	=	100 pts

1000 pts

Extra credit: 50 pts can be earned throughout the semester through various assignments

ABSENCES:

Laboratory attendance is **mandatory**! If you miss lab, labwork must be made up with another instructor **during the same week the lab exercise is offered** (check the lab calendar schedule provided in the laboratory on on Blackboard). If you make up a lab, be sure to get a note from that instructor to verify for your own instructor that you made up the lab. If you do not make up missed labs, your total lab score is reduced by 1% for *each* missed lab.

Recitation attendance is **mandatory**! Our recitation instructors are excellent and they are here to help you! Please bring your questions to them during your assigned recitation. Missed recitations may result in your total score reduced by 1% for each missed recitation.

STUDYING:

Principles of Biology is a **reading-intensive** course!! Please read the assigned chapters and work through the Scientific Skills Exercises. Each chapter typically requires multiple readings. Keep up with the chapters covered during lecture, since it is extremely difficult to catch up with reading this demanding. Students often need to spend more than the minimum amount of time on the material in order to master it. It can be helpful to keep a notebook for vocabulary words and questions as well as for lecture notes. Studying in small groups of 3 or 5 is also beneficial since people vary in their approach to material, and peer accountability is often better than working through the material alone.

INCOMPLETES (grade of INC). Students must **request** a grade of INC for BIOL 100 before the start of the Final Exam. An INC is assigned to a student **ONLY IF** the student presents documented medical evidence of an inability to take the Final Exam on schedule. Makeup lab work is not available, but a makeup for the Final Exam will be administered at a later date. An INC turns into a FIN at the end of the Fall 2019 term.

CREDIT/NO CREDIT. The Hunter College policy on Cr/NCr can be found at http://www.hunter.cuny.edu/onestop/repository/files/registrar/creditnocredit_reg.pdf, along with the required request form. If you want to take BIOL 100 for Cr/NCr, please complete and sign the form and then bring it to Dr. Sheppard-Lahiji **before** the start of the Final lecture exam. Please note that health science programs, including premed programs, do not accept Credit/No Credit grades. Only letter grades are acceptable for these programs. Each year we get requests from students who chose Cr/NCr to have their grade changed back to a letter grade because they decide to apply to a health-related program. The Cr/NCr form is a contract, and we are obliged to turn down such requests, so before requesting a Cr/NCr grade, please consider the consequences very seriously.