Hunter College
Principles of Biology II
FALL 2019 Lecture Syllabus

Lectures: Tuesdays & Fridays 8:10 am - 9:25 AM in 714 HW.
Course Lecturer: Dr. Samantha Sheppard-Lahiji
Email: Sheppard@genectr.hunter.cuny.edu
Email Response time: 24-48 hours excluding weekends
Office Hours: Tuesdays 9:45-10:45 am in 819 HN – *office hours do not run on exam days*
Texts and course materials:

1. Campbell Biology 11th edition (Custom for Hunter College) Jane B. Reece.
ISBN: 978-1-3236-2345-9
Custom edition is loose-leaf, 3-hole punched and contains fewer chapters than non-custom text.

2. Alaie and Jaeger (Fall 2019) Principles of Biology II Laboratory Manual
ISBN:978-1-5339-1461-3
Lab manuals and dissection kits are available from Shakespeare Bookstore (939 Lexington Ave)

Check blackboard for additional information not found within this syllabus

Classroom Expectations & Learning Outcomes
Meaningful and constructive dialogue is encouraged in class and requires mutual respect, and willingness to listen. Disruptive behaviors, including excessive talking, arriving late to class, and sleeping are discouraged.

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 biological literature and write short responses about the experimental work, 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).

Fall 2019
Lecture Schedule – Principles of Biology 2 (AM)

	M	T	W	Th	F	Sa/Su
Aug	26	27 Photosynthesis (Ch. 10)	28	29	30 Photosynthesis (Ch. 10)	31/1
Sep	2 College closed	3 Photosynthesis (Ch. 10) Cell Communication (Ch. 11)	4	5 Classes follow a Monday schedule	6 Cell Communication (Ch. 11)	7/8
	9	10 Cell Communication (Ch. 11)	11	12	13 Hormones and the Endocrine System (Ch. 45)	14/15
	16	17 Hormones and the Endocrine System (Ch. 45)	18	19	20 Neurons, Synapses, and Signaling (Ch. 48)	21/22
	23	24 Neurons, Synapses, and Signaling (Ch. 48)	25	26	27 Circulation & Gas Exchange (Ch. 42)	28/29
Oct	30 No classes scheduled	1 No classes scheduled	2	3	4 LECTURE EXAM I	5/6
	7	8 No classes scheduled	9 No classes scheduled	10	11 Circulation & Gas Exchange (Ch. 42)	12/13
	14 College closed	15 Osmoregulation and Excretion (Ch. 44)	16 Classes follow a Monday schedule	17	18 Osmoregulation and Excretion (Ch. 44)	19/20
	21	22 Immune System (Ch. 43)	23	24	25 Immune System (Ch. 43)	26/27
	28	29 Immune System (Ch. 43)	30	31	1 Immune System (Ch. 43)	2/3
	4	5 Telomeres & Cancer (Campbell supplement) *Last day to withdraw from course*	6	7	8 Telomeres & Cancer (Campbell supplement)	9/10
Nov	11	12 LECTURE EXAM II	13	14	15 Telomeres & Cancer (Campbell supplement)	16/17

	18	19 Telomeres & Cancer (Campbell supplement)	20	21	22 Telomeres & Cancer (Campbell supplement)	23/24
	25	26 Stem Cells & Biotechnology (Ch. 20)	27	28 College closed	29 College closed	30/1 College closed
	2	3 Stem Cells & Biotechnology (Ch. 20)	4	5	6 Stem Cells & Biotechnology (Ch. 20)	7/8
Dec	9	10 SHORT RESPONSE EXAM *(Last Day of Lecture)*	11	12	13	14/15
	16	17	18	19	20 FINAL LECTURE EXAM 9:00-11:00AM	

NOTE: Lecture Presentations ARE NOT POSTED Most slides have exact or comparable figures in the textbook, and you are expected to take notes on slides shown in lecture. In addition to using the textbook, lectures will include outside materials including figures and graphs that you are responsible for. Audio recordings are allowed. Video recordings are not allowed.

There are NO MAKEUP EXAMS in BIOL 102.

Laboratory Calendar
Principles of Biology - Fall 2019

Month	Monday	Tuesday	Wednesday	Thursday	Friday
August	26	27 *No Lab*	28 *No Lab*	29 **Photosynthesis**	30 **Photosynthesis**
September	2 *No Classes Scheduled*	3 **Photosynthesis**	4 **Photosynthesis**	5 **Photosynthesis** *Monday Schedule*	6 *No Lab*
September	9 **Plants 1**	10 **Plants 1**	11 **Plants 1**	12 **Plants 1**	13 **Plants 1**
September	16 **Plants 2**	17 **Plants 2**	18 **Plants 2**	19 **Plants 2**	20 **Plants 2**
September	23 **Practical #1**	24 **Practical #1**	25 **Practical #1**	26 **Practical #1**	27 **Practical #1**
September/ October	30 *No Classes Scheduled*	1 *No Classes Scheduled*	2 **Invertebrates**	3 **Invertebrates**	4 **Invertebrates**
October	7 *No Lab*	8 *No Classes Scheduled*	9 *No Classes Scheduled*	10 *No Lab*	11 *No Lab*
October	14 *No Classes Scheduled*	15 **Invertebrates**	16 **Invertebrates** *Monday Schedule*	17 **Vertebrates 1**	18 **Vertebrates 1**
October	21 **Vertebrates 1**	22 **Vertebrates 1**	23 **Vertebrates 1**	24 **Vertebrates 2**	25 **Vertebrates 2**
October	27 **Vertebrates 2**	28 **Vertebrates 2**	29 **Vertebrates 2**	30 **Practical #2**	31 **Practical #2**
November	4 **Practical #2**	5 **Practical #2**	6 **Practical #2**	7 **Histology**	8 **Histology**
November	11 **Histology**	12 **Histology**	13 **Histology**	14 **Blood**	15 **Blood**
November	18 **Blood**	19 **Blood**	20 **Blood**	21 **Behavior**	22 **Behavior**
November	25 **Behavior**	26 **Behavior**	27 **Behavior**	28 *No Classes Scheduled*	29 *No Classes Scheduled*
December	2 **Practical #3**	3 **Practical #3**	4 **Practical #3**	5 **Practical #3**	6 **Practical #3**
December	9 *No Lab*	10 *No Lab*	11 *No Lab*	12 *No Lab*	13

No Lab = You have no Biology Lab; lectures and recitations will meet as scheduled.
No Classes Scheduled = No classes meet, the college is closed.

LECTURE: **700 pts**

The first 2 Lecture exams are 15% of your grade in the course: 10% for multiple-choice questions + 5% of very short responses. On the last day of lecture, you will have a short response exam which will be cumulative in a style comparable to BIOL 100 short responses. The (final) exam, held on Friday, 12/20 during finals week will be worth 20% points in total: 10% multiple choice questions from material not yet tested (material since the 2nd exam) and an additional 10% cumulative. This cumulative exam will consist of multiple choice questions covering material from the 1st and 2nd lecture exams.

Please note that if the cumulative MCQ exam is **higher** than your lowest score MCQ score on Exam 1 or Exam 2, the cumulative exam score will replace that lowest score (and count double). For instance, if you score a 76 on exam #1, a 68 on exam #2, and you earn 82 points on the cumulative portion of the 3rd exam, the MCQ score from exam #2 will be replaced with the 82 score. Your exam grades would then become 76, 82, and 82, (+ your score from the non-cumulative portion of the 3rd exam which cannot be dropped). The fill in the blank portion of lecture exams and the short response exam cannot be dropped.

Recitation assignments: Recitation instructors will administer assessments during your recitations. The specific dates will be determined and announced on blackboard.

Gradescope: We will be using Gradescope this term, which allows us to provide feedback on your work electronically. Certain exam grades will be returned through Gradescope and some assignments may require submission via gradescope. As soon as grades are available, you will be notified immediately so that you can log in and see your feedback.

LAB: **300 pts**

Students must take lab practical exams with their registered section. **There are no makeup lab practicals. Please consult the lab calendar for the Fall 2019 semester.**

COURSE GRADE SUMMARY:

Lecture Exam 1	**=**	**15%** 25 MCQs (10%) and very short responses (5%)
Lecture Exam 2	**=**	**15%** 25 MCQs (10%) and very short responses (5%)
Short Response Exam	**=**	**10%** cumulative short responses
Recitation Assignments	**=**	**10%**
Final Lecture Exam	**=**	**20%** 50 MCQs (25 new – post exam 2, 25 previous – exams 1& 2)
Lab Practicals	**=**	**30%** (three practicals worth 10% each)

100%

Extra credit: 50 points earned through lab quizzes given at the start of lab class

ABSENCES:
Laboratory attendance is mandatory! You are allowed to miss **one** non practical lab period during the semester. If you miss the first laboratory, you may not miss another lab period. After one absence in lab, you must make up the lab work with another instructor during the same week the lab exercise is offered (it is your responsibility to review the lab calendar).

Recitation attendance is mandatory! You are allowed to miss **two** non-assignment recitations during the semester without penalization. Our recitation instructors are excellent and they are here to help you! Please bring your questions to them during your assigned recitation. Recitation instructors hold regular office hours, where you can also find other students to study with. Studying in small groups is immensely helpful as multiple minds are often better than one mind. There are no makeup recitation assignments.

STUDYING: Principles of Biology is a ***reading-intensive*** course!! Please read the assigned chapters and materials provided on blackboard. Each chapter typically requires multiple readings. Stay at pace with the content on the syllabus, since it is extremely difficult to effectively catch up with reading. Students often need to spend more than the minimum amount of time on the material in order to master it. Mastery is often not directly correlated with how many times you have read something but your ability to effectively convey that material and conceptualize it. It can be helpful to keep a notebook for vocabulary words and questions as well as for lecture notes.

INCOMPLETES (grade of INC). Students must submit a *request* for a grade of INC for BIOL 102 **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 lecture exam can be administered before the end of the Spring 2020 semester. An INC that is not resolved turns into a FIN at the end of the Spring 2020 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 102 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.