**Syllabus for Principles of Biology II (BIOL 102). Fall 2020**

## Contact Information

**Course Lecturers:** A. Alaie, PhD & A. Lahiji, PhD
**Lecturer Emails**: Alaie@genectr.hunter.cuny.edu & Lahiji@genectr.hunter.cuny.edu
**Lecturer Office Hours:** A.Alaie: Thursdays 1-2pm (Through Zoom. Link will be provided.)
A.Lahiji: TBA

Additional contact information for recitation and lab instructors will be located on blackboard

## Course Materials

**Texts and course materials**:

- Required - Campbell Biology textbook
  - Suggested *version:* 11th edition (Custom for Principles of Biology at Hunter College) Jane B. Reece. ISBN-10: 1323623450 (ISBN-13: 9781323623459)
  - Labster (no purchase is required to utilize these online laboratory simulations

## Course Description

**Prerequisites**

- BIOL 100 or equivalent
- Consistent access to an electronic device with a stable internet connection* (Primary Instructional technologies: Blackboard & Zoom)

**Online organization**

- Lectures are **asynchronous**. Asynchronous means that the lectures will NOT be held during the official lecture time of 5:35-6:50pm Tuesdays/Thursdays. The lectures will be provided as mp3 videos that will be accessible at the start of each lecture week and can be watched at any time.
- Recitations are **synchronous**. Synchronous means that the recitations will run during their official times. You are responsible for accessing Zoom and attending your weekly registered section.
- Labs are **synchronous.** Synchronous means that the labs will run during their official times. You are responsible for attending your registered section (either through Zoom or BB collaborate. Your lab instructor will be in touch with you before your first scheduled class.)
- Exams (whether the class-wide exam is for lecture or for lab) are **synchronous with the lecture time from 5:35-6:50pm on the given**

**Tuesday or Thursday on which the exam will be administered.** You are responsible for logging on to BB during the lecture times on the relevant dates. Please mark your calendar so that you do not forget.

**Learning Outcomes**

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.
5. Become critically engaged with the material and be active participants in the classroom/community.

## Online Lecture Course Schedule

**Week date Textbook reading**

(Some weeks may have additional readings and articles that will be provided via blackboard.)

8/27/20

9/01 & 9/03 Viruses (Chapter 19)

9/08 & 9/10 Viruses (19) & Signal Transduction (Chapter 11)

9/15 & 9/17 Signal Transduction (Chapter 11)

9/22 & 9/24 Immune System (Chapter 43) Part 1

9/29 & 10/1 Immune System (Chapter 43) Part 2

10/6 & 10/8 Endocrine System (Chapter 45)

10/13 & 10/15 **Lecture Exam on Tuesday 10/13 from 5:35-6:50pm****

10/20 & 10/22 Cancer (pdf handout to be posted on BB) Part 1

10/27 & 10/29 Cancer (pdf handout) Part 2

11/03 & 11/05 Stem Cells (reading to be assigned)

11/10 & 11/12 Cardiovascular System (Chapter 42, pages 919-937; 42.1-42.4)

11/17 & 11/19 Gas Exchange (Chapter 42, pages 937-949; 42.5- 42.7)

11/24 **Lecture Exam on Tuesday 11/24 from 5:35-6:50pm****

12/01 & 12/03 Reproduction (Chapter 46)

12/08 Neurons, Synapses and Signaling (Chapter 48)

12/15 **FINAL EXAM Tuesday 12/15 from 5:20-7:20pm*****

**Lecture exams 1 & 2 are administered synchronously within the official time frame of the lecture.

***The Final Exam starts a few minutes before our scheduled lecture time and extends an hour and a half later. This 2-hour period is assigned by the college and cannot be changed.

**Online Laboratory Class Schedule**

Labs begin Tuesday, September 8th. (Please see accompanying lab calendar document.)

We will be using Labster for lab-related content during the Fall 2020 semester. Labster provides a virtual laboratory experience and will be used to reinforce -or introduce- topics covered in BIOL 102. You are expected to perform the assigned simulations *before* attending your weekly lab section (except for the first week when you will perform the simulation along with your instructor in class).
You will be tested on the assigned simulation at the start of each lab class (except for the first class) so please arrive to class prepared!
All lab instructors will use their section specific blackboard page/email in order to communicate with students and run labs.

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**There are NO MAKEUP EXAMS in BIOL 102.**

**LECTURE: 700 pts**

There will be quizzes administered throughout the semester worth a total of 100 points.

The first 2 Lecture exams are worth 150 pts each: all multiple-choice questions. The (Final) exam, held on Tuesday12/15/20 (5:20-7:20pm) will be worth 300 points in total: 150 points of multiple choice questions from material not yet tested (material presented after 2nd exam) and an additional 150 points of cumulative multiple choice questions. This cumulative portion will consist of multiple choice questions covering material from the 1st and 2nd lecture exams.

**Please note**: If your 150 pt cumulative exam score (from the Final exam) is **higher** than either of your first 2 lecture exam scores, the cumulative multiple exam score will replace the lower of those exam scores (and count double). For instance, if you score a 120 on exam #1 and a 68 on exam #2, and you earn 141 points on the cumulative

portion of the Final exam, we will drop your score from exam #2 and count your 141 score twice. Your total will be 120, 141 and141 (+ your score from the non-cumulative portion of the Final exam which cannot be dropped).

**LAB**: **300 pts**
There will be only one lab exam scheduled during the semester for 100 pts (see lab calendar). (This exam will take place during your lecture time from 5:35-6:50pm on the given Tuesday or Thursday on which the exam will be administered.) The remaining 200 points will be earned over the course of the semester as follows: You will earn 5 points each week for the successful completion of the assigned Labster simulation. An additional 15 points can be earned each week through quizzes administered at the start of each laboratory period. 20 points per week X 10 weeks of laboratory class = 200 points.

## COURSE GRADE SUMMARY:

| | | |
|---|---|---|
| Lecture Exam 1 | = | 150 pts. (All multiple choice questions) |
| Lecture Exam 2 | = | 150 pts. (All multiple choice questions) |
| Final Exam | = | 300 pts. (150 points new material & 150 points from cumulative material. All multiple choice questions on this exam.) |
| Quizzes based on lecture/recitation | = | 100 pts. (Taken throughout the semester) |
| Lab material | = | 300 pts. (One lab exam worth 100 pts & 150 pts of quizzes & 50 points Labster simulation completion. |

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**1000 pts**

**Taken from the Chancellor's memo:*

***NEED TECH?***

*With almost all of CUNY's fall classes being delivered online, it's crucial that students have the right technology in place. We purchased Chromebooks and iPads in the spring to enable students to continue their academic progress online. More recently, we procured thousands of Wi-Fi hotspot devices for student use.*

*If you are a student and don't have all the tools you need to start strong, your college may be able to lend you a device and provide you with software for your courses.*

https://cunyhunter.co1.qualtrics.com/jfe/form/SV_9viuDlTexA9rV2d

Please also see this link below for additional information about the excerpts below.

**https://hunter.cuny.edu/fof/student-support/**

**RE: Computers for usage on the 9th floor North Building.**
A limited number of computer labs with specialized software that is not available through CUNY or Hunter remote licensing (Adobe Creative Suite, ArcGIS, and others) will be made available in the North Building. Additionally, computer terminals with desktops and monitors will be available in both the Library and select ICIT Computer Labs.
Physical distancing will be maintained by removing furniture/computers and marking approved seating locations with signage.
Rooms will be cleaned by Facilities staff daily. ICIT will be responsible for disinfecting keyboards. Students will be provided with sanitizing wipes or disinfectant spray for wipe down before and after use.
**RE: Technology Services**
Laptops and mobile hotspot devices are available for loan to students. students on loan for one semester at a time. Students may request devices by completing an online form and a staff member will follow up with fulfillment details.

- On Campus: Technology loans will be offered in our West Building lobby. Students requesting pickup this method will be required to pre-register before visiting campus.
- Home Delivery: The college will distribute devices via mobile food pantry and shipping to home (at no cost to student).

**Please note:**

**Proctoring software,** which may include the use of browser lock-downs and cameras, will be used for examinations in this course.
The lecture and laboratory exams are **not** "open-book" nor are they group-wide exams. Exams are to be taken as if you are sitting in your lecture hall, each individual is to take their own exam.

**CUNY POLICIES:**
Online courses are subject to the same CUNY policies as are in-person courses regarding academic integrity, the acceptable use of computer resources, equal opportunity and non-discrimination, sexual misconduct, workplace violence, domestic violence, and reasonable accommodations for persons with disabilities.

**CUNY Academic Integrity Policy:** (*please copy and paste address below*)
https://www.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/academic-integrity-policy/