

NATURAL SCIENCES DEPARTMENT  
HOSTOS COMMUNITY COLLEGE  
of THE CITY UNIVERSITY OF NEW YORK

**SYLLABUS FOR ORGANISMIC BIOLOGY (lecture) - BIO 120**

4 credits. 3-hr. lecture

Pre/corequisites: BIO 110

Offered in English and in Spanish

**COURSE DESCRIPTION:**

Lecture topics include the theory of evolution by natural selection, the evolution and diversity of organisms and their classification into the five kingdoms. Students will learn the main morphological features of each group as well as animal digestion, endocrine system, circulation, immunity, nervous system I and basic concepts of ecology. This course is for non-science major students.

**TEXTBOOK:** Campbell Essential Biology with Physiology, Books a la Carte Plus MasteringBiology with eText by Erik J. Simon, Jean L. Dickey, and Jane B. Reece,-- Access Card Package, 5-th Edition (2016)  
ISBN-13: 9780134057491; ISBN-10: 013405749X

**OBJECTIVES**

- Learn how to answer a wide range of biological questions
- Understand evolution and its relationship with biological diversity
- Discuss limitations for some methodologies (technical, financial, and ethical)
- Strengthen brainstorming, critiquing, writing, and oral communication skills
- Analyze data obtained in the lab experiments and by reading primary literature.
- Learn to discuss what you read and what you know (Evolution vs. Intelligent Design)
- See how basic research can lead to unexpected applications.

<b>CHAPTERS</b>	<b>SUBJECT AREAS</b>	<b>PAGES</b>
Chapter 13	How Populations Evolve	242- 267
Chapter 14	How Biological Diversity Evolves	268- 291
Chapter 15	The Evolution of Microbial Life	292- 313
Chapter 16	The Evolution of Plants and Fungi	314 - 335

Chapter 17	The Evolution of Animals	336 - 370
Chapter 22.	Nutrition and Digestion	474 – 493
Chapter 23	Circulation and Respiration	494 – 515
Chapter 25	Hormones	534 – 549
Chapter 27	Nervous, Sensory, and Locomotor Systems	574 – 602
Chapter 19	Population Ecology,	402 - 423

**Grade Policy: The Final Lecture grade will be based on**

4-5 Exams (including the final exam)	70%
Assignments (Homework)	25%
Participation (suggested)	5%
Total grade: 100%	

No student under any circumstances will be given a passing grade in this Biology course without taking and passing the laboratory. Four unjustified absences to lab are equivalent to an F.

**Policy Grade:** The college uses the following grades:

A,A<sup>-</sup> for excellent work

B<sup>+</sup>, B, for good work

B<sup>-</sup> C, for fair work

D, for poor work

F, for failure

I, for incomplete

WU, for unfinished incomplete, equivalent to F

W, for withdrawn

The grade of Incomplete (I) is given in regular courses upon request of the student for personal emergencies that are verifiable. The faculty member has the responsibility to provide Inc grade only to those students who are passing the course. The student has the responsibility to take the initiative in completing the work, and is expected to make up the incomplete during the first semester in residence after receiving the grade of Incomplete. If the student does not make up the incomplete during the following semester after receiving it, an F grade may be given by the faculty member without further consultation with the student.

If after the end of the first semester the Inc remains on the record it will be designated as an F and will be computed in the student's GPA.

A	93-100
A <sup>-</sup>	90-92
B <sup>+</sup>	87-89
B	83-86
B <sup>-</sup>	80-82
C <sup>+</sup>	77-79
C	70-76
D	60-69
F	Failure

There is no R grade in this course.

### **Academic policies:**

Hostos Community College has an evaluation system based on the honesty and integrity of the academic work of an identified student or students. Faculty, students and staff have the responsibility to uphold the standards of the community and to take action when others violate them. Faculty members have an obligation to educate students to the standards of academic integrity, and to report violations of these standards to the appropriate authorities of the college. If a community member is proved with academic dishonesty, the college will impose sanctions. The three most common forms of academic dishonesty are cheating, plagiarism, and bribery. It must be understood that any student who knowingly aids in plagiarism or other cheating, e.g., allowing another student to copy a paper or examination question, is as guilty as the cheating student.

### **Cheating:**

In the collegiate setting, cheating is defined as the purposeful misrepresentation of another's work as one's own. Faculty and students alike are responsible for upholding the integrity of this institution by not participating either directly or indirectly in acts of cheating and by discouraging others from doing so.

### **Plagiarism:**

Plagiarism is a form of cheating which occurs when persons, even if unintentionally, fail to acknowledge appropriately the sources for the ideas, language, concepts, inventions, etc. referred to in their own work. Thus, any attempt to claim another's intellectual or artistic work as one's own constitutes an act of plagiarism.

**Bribery:**

In the collegiate setting, bribery involves the offering, promising, or giving of items of value, such as money or gifts, to a person in a position of authority, such as a teacher, administrator, or staff member, so as to influence his/her judgment or conduct in favor of the student. The offering of sexual favors in exchange for a grade, test score, or other academic favor, shall be considered attempted bribery. The matter of sexual favors, either requested or offered, in exchange for a grade, test score or other academic favor, shall also be handled as per the Sexual Harassment procedures of the College.

**Course schedule:**

Readings must be completed for each class. Not all assigned texts will be discussed in class or covered in the class lectures.