

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

SYLLABUS FOR GENERAL BIOLOGY I - BIO 210

4 credits. 3-hr. lecture/3-hr. lab/1-hr. recitation

Pre/corequisites: *ENG 1300 or ENG 1301; MAT 1622 (or exemption)*

COURSE DESCRIPTION:

This course, the first of two courses in biological science, is intended for students preparing for careers in science. Lecture topics include basic properties of living organisms, metabolism, energy transformation, cellular reproduction, Mendelian genetics, and gene expression.

TEXTBOOK: *Biology* by Neil A. Campbell, Jane B. Reece (Ninth Edition) Benjamin Cummings. ISBN 9781256987284

www.campbellbiology.com

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LABORATORY EXERCISES - GENERAL BIOLOGY I – BIO 210

LABORATORY MANUAL: *BIOLOGY: Laboratory Manual*, by Darrell S. Vodopich, Randy Moore (Eight Edition) McGraw-Hill Higher Education, ISBN 978-0-07-299522-0

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RECITATION EXERCISES - GENERAL BIOLOGY I – BIO 210

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Week II	Atom structure and chemical bonds (exercises)
Week III	Proteins, Lipids, Nucleic Acids (reading and discussion?)
Week IV	Plasma membrane, structure, function, passive and active movement (computer simulations)
Week V	Metabolism, Photosynthesis, Cell respiration (review and discussion)
Week VI	The cell, structure, function - revision (models, images, computer simulations)
Week VII	Cell division, cancer (chapter reading and discussion)
Week VIII	Aneuploidy, pedigree (chapter reading and discussion)
Week IX	Mendelian genetics – exercises
Week X	Sex linked inheritance - exercises
Week XI	DNA Replication, synthesis of proteins (exercises)
Week XII	Virus, HIV (reading and discussion)
Week XIII	Stem cell research (reading)