

Course-Based Learning Outcomes and Alignment with General Education Goals Upon satisfactory completion of this course, the student will be able to:

BIO1101

NYCCT Gen Ed Common Core

CUNY Common Core

1. Comprehend the principles of biology

Use the arts, sciences and humanities as concepts and methods of a life or a forum for the study of values, ethical physical science. principles, and the physical world.

Engage in an in-depth, focused, and sustained program of study

other sciences to biology

2. Appreciate the relationship of the Understand and appreciate the range of academic disciplines and their relationship to the fields of professional and applied study

3. Understand the scientific method, Employ scientific reasoning and logical its history and importance to societythinking.

4. Acquire skills in the use of biological equipment and techniques

5. Develop expertise in the written and oral expression of biological ideas

Acquire and use the tools needed for communication, inquiry, analysis, and productive work.

Acquire and use the tools needed for communication, inquiry, analysis, and productive work.

Communicate in diverse settings and groups, using written (both reading and writing), oral (both speaking and listening), and visual means, and more than one language.

6. Gain skill in the collection of data and in its mathematical treatment and interpretation

as gather information from observation. present it in an effective written

Understand and employ both quantitative and qualitative analysis to describe and solve problems, both independently and cooperatively.

Gather, interpret, evaluate, and apply information discerningly from a variety of sources.

Identify and apply the fundamental

Apply the scientific method to explore natural phenomena, including hypothesis development, observation, experimentation, measurement, data analysis, and data presentation Use the tools of a scientific discipline to carry out collaborative laboratory investigations.

Gather, analyze, and interpret data and present it in an effective written laboratory or fieldwork report

Derive meaning from experience, as wellGather, analyze, and interpret data and laboratory or fieldwork report

> Identify and apply research ethics and unbiased assessment in gathering and reporting scientific data.



7. Acquire the knowledge needed major bioethical issues in society

for a thorough understanding of the Use the arts, <u>sciences</u> and humanities as a forum for the study of values, ethical principles, and the physical world.

> Understand and apply values, ethics, and diverse perspectives in personal, professional, civic, and cultural/global domains