



Course-Based Learning Outcomes and Alignment with General Education Goals

Upon satisfactory completion of this course, the student will be able to:

BIO1101

1. Comprehend the principles of biology

2. Appreciate the relationship of the other sciences to biology

3. Understand the scientific method, its history and importance to society

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

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

NYCCT Gen Ed Common Core

- Use the arts, sciences and humanities as a forum for the study of values, ethical principles, and the physical world.

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

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

Employ scientific reasoning and logical thinking.

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.

CUNY Common Core

Identify and apply the fundamental concepts and methods of a life or physical science.

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



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

- Derive meaning from experience, as well as gather information from observation.
- 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.

7. Acquire the knowledge needed for a thorough understanding of the major bioethical issues in society

- Use the arts, sciences 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

- Gather, analyze, and interpret data and present it in an effective written laboratory or fieldwork report
- Identify and apply research ethics and unbiased assessment in gathering and reporting scientific data.