

BIOL100C : Introduction to Biology with Lab

An introductory course in biology intended to satisfy the biology admission requirement for NHTI health-related degree and professional certificate programs and Natural Science Department degrees and diploma programs. Topics include scientific method and measurement, chemistry, cell structure and function, energy transformation, cell reproduction, genetics and evolution. Laboratory exercises parallel lecture topics to introduce and enhance the concepts of biology. Students are expected to write a lab report on an experiment using the scientific method. (For institutional credit only; does not count toward graduation requirements but is calculated into GPA; not intended for transfer.)

Credits 4

Lab/Practicum/Clinical Hours 2

Lecture Hours 3

Learning Outcomes

Upon completion of this course, students will:

1. Explain the meaning of and describe the value of biology.
2. Physically demonstrate proper laboratory techniques and skills.
3. Evaluate the relationship between science and society.
4. Apply the scientific method.
5. Define the cell theory and describe the structures and main functions of cells.
6. Examine evidence of evolution.
7. Discuss evolutionary theory and mechanisms for evolution.