

[Outline of Biology 160]

Course Description

Introductory Biology provides a foundation for the various branches of biological studies. This course often builds a familiarity with cellular and molecular biology, ecology, evolution and the diversity of life.

Typical Course Mechanics

Approximately 4 hours of lecture a week (or 5 hours of online video)

Approximately 4 hours of lab a week

Expect at least one midterm and a Final, though most classes break up the tests into 4-5 midterms

Generally, a student should expect to spend 8 hours a week covering lecture and lab instruction and an additional 5-10 hours a week doing homework and studying

Topics Generally Covered

Cells Structure
Cellular Interactions
Biological Macromolecules
Cellular Respiration
Photosynthesis
Mitosis
Meiosis
Genetics
Evolution
Phylogenies
Biodiversity
Plant Reproduction
Ecosystems

[PREPARING FOR THE COURSE]

Pre-Requisite Knowledge or Skills

Because this course is a pre-requisite for higher-level science courses, there often aren't any required courses prior to this one. It is often suggested that a student take introductory chemistry or have taken chemistry/biology in high-school before taking this course. If you haven't taken college-level chemistry or high-school biology/chemistry (or it has been a long time) you may want to preview the following topics:

Atoms & Molecules
Chemical Bonding
Acids & Bases
Properties of Water
Cells

*Review for the above topics can be done using online resources such as [khanacademy.org](https://www.khanacademy.org) or referring to your prior course materials. Brushing up or simply previewing these topics can help you get a better idea of what may be presented during your course.

Preparing for the Course

Books & Supplies

Most classes require a textbook and may or may not require a lab manual. Often instructors will post lab and class assignments on online classroom portals rather than making you buy a packet beforehand.

Study Support

Instructor office hours and institutional study labs are always a great place to get support but the Training Fund also has both in-person tutoring and online (Tutor.com) tutoring options available year-round! Visit: www.healthcareerfund.org/tutoring to learn more!