

# A.S. in Biology

## DESCRIPTION OF THE BIOLOGY PROGRAM

The Associate in Science (A.S.) Biology degree is designed to promote an understanding of modern biological principles. It fosters independent thinking, deepens the understanding of biology's relevance to modern societal issues and encourages personal growth in scientific writing and research. Many courses have internet components to improve the students' analytical powers and information technology skills which are valuable for success in life beyond college.

## SKILLS

**Analytical.** Biological technicians need to conduct scientific experiments and analyses with accuracy and precision.

**Communication skills.** Microbiologists should be able to effectively communicate their research processes and findings so that knowledge may be applied correctly.

**Math skills.** Microbiologists, biochemists and biophysicists regularly use complex mathematical equations and formulas in their work. Therefore, they need a broad understanding of math, including calculus and statistics.

## CAREER INFORMATION

Biological technicians help biological and medical scientists conduct laboratory tests and experiments.

Microbiologists study microorganisms such as bacteria, viruses, algae, fungi, and some types of parasites. They try to understand how these organisms live, grow, and interact with their environments.

Biochemists and biophysicists study the chemical and physical principles of living things and of biological processes, such as cell development, growth, heredity, and disease.

## EMPLOYMENT OUTLOOK

The projected employment over the next 10 years:

- Employment of biological technicians is projected to grow 7 percent from 2020 to 2030, about as fast as the average for all occupations.
- Employment of microbiologists is projected to grow 5 percent from 2020 to 2030, slower than the average for all occupations.
- Employment of biochemists and biophysicists is projected to grow 5 percent from 2020 to 2030, slower than the average for all occupations.

## **CAREER PATH**

The median annual wage for biological technicians was \$48,140 in May 2021. Most biological technicians work full time and keep regular hours.

The median annual wage for microbiologists was \$79,260 in May 2021. Most microbiologists work full time and keep regular hours.

The median annual wage for biochemists and biophysicists was \$102,270 in May 2021. Most biochemists and biophysicists work full time and keep regular hours. They may have to work additional hours to meet project deadlines or to perform time-sensitive laboratory experiments.

## **CAREER COACH – SEARCH CAREER INFORMATION & CURRENT LOCAL WAGE DATA**

<https://kingsborough.emsicc.com/programs/biology-as/190619>

**INFORMATION ON HOW TO APPLY: [www.cuny.edu/apply](http://www.cuny.edu/apply) or 718-368-4600**

08-2022

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