

A.S. in Chemistry

DESCRIPTION OF THE CHEMISTRY PROGRAM

The Associate in Science (A.S.) degree in Chemistry is a 60-credit which provides students with the foundation for diverse careers. The program employs mathematical, scientific and computing techniques to support and solve the problems of chemistry. Upon graduating from this program, students will understand the importance of the professional and ethical responsibilities to enter the field.

SKILLS

Analytical skills. Chemical engineers must troubleshoot designs that do not work as planned. They must ask the right questions and then find answers that work.

Ability to use technology. Chemical technicians must set up, operate, troubleshoot, and repair sophisticated equipment and instruments. They also may need to adjust the equipment to ensure that experiments and processes are running properly and safely.

Observation skills. Agricultural and food scientists conduct experiments that require precise observation of samples and other data. Any mistake could lead to inconclusive or inaccurate results.

CAREER INFORMATION

Chemical engineers apply the principles of chemistry, biology, physics, and math to solve problems that involve the production or use of chemicals, fuel, drugs, food, and many other products. They design processes and equipment for large-scale manufacturing, plan and test production methods and byproducts treatment, and direct facility operations. Chemical technicians use laboratory instruments and techniques to help chemists and chemical engineers research, develop, produce, and test chemical products and processes. Food scientists research ways to improve the efficiency and safety of agricultural establishments and products.

EMPLOYMENT OUTLOOK

Employment of chemical engineers is projected to grow 14 percent from 2021 to 2031, much faster than the average for all occupations. The median annual wage for chemical technicians was \$48,990 in May 2021. Overall employment food scientists is projected to grow 8 percent from 2021 to 2031, faster than the average for all occupations.

CAREER PATH

The median annual wage for chemical engineers was \$105,550 in May 2021. Chemical engineers typically need a bachelor's degree in chemical engineering or a related field. Some employers prefer to hire candidates who have practical experience, so internships and cooperative engineering programs may be helpful.

The median annual wage for chemical technicians was \$48,990 in May 2021. To enter the occupation, chemical technicians typically need an associate's degree or two years of postsecondary education. Some positions require candidates to have a bachelor's degree; others require a high school diploma. Most chemical technicians receive on-the-job training.

Food scientists need at least a bachelor's degree from an accredited postsecondary institution, although many earn advanced degrees. The median annual wage for food scientists was \$74,160 in May 2021.

CAREER COACH – SEARCH CAREER INFORMATION & CURRENT LOCAL WAGE DATA

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

INFORMATION ON HOW TO APPLY: www.cuny.edu/apply or 718-368-4600

10-2022

KINGSBOROUGH
COMMUNITY COLLEGE

★ DREAMS BEGIN HERE ★

CU
NY