

DEPARTMENT: CHEMISTRY

As a member of **Department of Chemistry** you will join a group of students who are part of the **School of Arts and Sciences** at New York City College of Technology, City University of New York.

Mission: The **Associate (AS) Degree Program in Chemical Technology** promotes an understanding of modern theory, applications and issues in chemistry; development of laboratory techniques and analytical skills; and enhanced communication skills with a focus on scientific writing. City Tech's AS curriculum includes classroom and laboratory course work in general and organic chemistry; the curriculum also requires courses in calculus, calculus-based general physics I and II, two elective courses in science or mathematics and all Pathways general education required courses. The AS in Chemical Technology provides graduates with the foundations for a bachelor's degree or higher in disciplines such as chemistry, biochemistry, chemical engineering, education, applied mathematics and other related sciences. These programs may lead to admission to medical and dental schools, for highly qualified applicants. The AS in Chemical Technology also provides the preparation needed for transfer to professional schools in the health sciences in areas such as medical technology, pharmaceutical sciences and physician assistant programs. The majority of graduates pursue higher education in baccalaureate programs within the City University of New York.

The **Bachelor of Science (BS) in Applied Chemistry** is unique within the City University of New York. The program adapts City Tech's Chemistry Department offerings to meet the education requirements of 21st century laboratory science careers in and around New York City. The BS complements the existing AS in Chemical Technology. It provides a seamless path for AS Chemical Technology students to continue their studies. The degree has a 2+2 structure such that the AS in Chemical Technology is the first two years of the bachelor's degree. Our curriculum is designed to provide a strong foundation in laboratory skills that will enable graduates to achieve "college-to-career" employment. This includes hands-on training in extensive laboratory course work, necessary for students to launch careers in chemical industry and in the broad range of industries that utilize analytical chemistry. While fulfilling its primary goal of excellent preparation for immediate entry into a career position, the program also prepares students for post-baccalaureate study and health profession schools because it meets all of the American Chemical Society's requirements for approval of bachelor's degree programs.

Students in the Chemistry major are provided with important resources such as tutoring, computer labs, and chemistry labs that are equipped with the broad range of modern instrumentation. Students are often interested in acquiring the following skills and aptitudes:

- Enjoy spending time in the laboratories, performing experiments and talking about science
- Gain experience using a broad range of scientific equipment

Students can join department clubs such as Chemistry Club and engage in other opportunities, such as various programs that support undergraduate research: Louis Stokes Alliance for Minority Participation (LS-AMP), Emerging Scholars Program (ESP), National Science Foundation (NSF) Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), CUNY Research Scholar Program (CRSP), Collegiate Science & Technology Entry Program (CSTEP) for transfer students from underrepresented groups and Honors Scholars Program. <http://www.citytech.cuny.edu/research/>

Options for Employment and Further Study

- ✓ Find a job in various areas: chemical and pharmaceutical industry, biotechnology, forensics, environmental testing, lab work in government and academic institutions.
- ✓ Transfer to a professional school (e.g., Medical School, Physician's Assistant School, Pharmacy School, Dental School)
- ✓ Graduate schools (Master or Ph.D.)

Faculty and Staff

Chair: Diana Samaroo

Associate Professors: Tony Nicholas, Alberto Martinez, Jay Deiner, Peter Spelane

Assistant Professor: Suresh Tewani, Ivana Jovanovic

CLT's: Lois Johnson, Ziru Li

Office Assistant: Colleen O' Neill

Fun Facts

- ✓ The faculty and staff of the Chemistry Department are very proud that the valedictorian this year 2021 is Ms. Youshmanie Sukraj who graduated with the Bachelor of Science in Applied Chemistry degree.

- ✓ Graduates from our BS program continue their education to PhD Programs at Stony Brook University, SUNY; MS Programs in data science at Baruch College, as well as professional schools, such as NYU College of Dentistry and Touro College of Pharmacy.
- ✓ Students enjoy a good student-to-professor ratio.
- ✓ The Chemistry Department is one of the best-equipped undergraduate chemistry programs in New York in terms of a broad range of modern instrumentation.