

SCIENCE FOR FORENSICS

Associate in Science Degree | Joint Degree Program

Department of Chemistry, Earth Sciences, and Environmental Sciences

Program Description

The Science for Forensics (SFF) Associate in Science (AS) degree program is part of a joint program between Bronx Community College and John Jay College of Criminal Justice for students with a strong interest in science, law and public service. BCC graduates of the Science for Forensics AS program will continue their studies at John Jay College where they will earn a Bachelor of Science in Forensic Science. To enter the Forensic Science program at John Jay, BCC graduates must have a 2.5 or better GPA in foundation coursework. Creation of this 2 + 2 partnership in forensic science opens up a new opportunity for New York City area students to receive an excellent education leading to exciting career paths. The SFF program provides future forensic scientists with the necessary scientific foundation and technical training in general chemistry, organic chemistry, physics, biology, mathematics, data collection and analysis, oral and written communication skills, teamwork and hands-on experience for successful, productive and rewarding careers in local, regional and national forensic science and chemistry based laboratories, major research centers, university facilities, government testing labs and public utilities.

Learning Outcomes

Upon successful completion of the Science for Forensics program requirements, students will be able to:

1. Demonstrate chemical knowledge to identify, analyze and evaluate chemical components of an unknown specimen.
2. Compare scientific data utilizing learned critical thinking skills and strong science fundamentals in biology, chemistry and physics.
3. Demonstrate the necessary knowledge, laboratory skills and inter-personal skills, required of entry-level Forensic Science technicians and general science technicians in related fields in the public and private sectors of commercial and governmental research, institutional, and commercial enterprises.

SCIENCE FOR FORENSICS CURRICULUM (PATHWAYS)

60 Credits required for AS Degree

Curriculum Coordinator: Dr. John Molina

Required Core

- A. English Composition (6 Credits)
- B. Mathematical and Quantitative Reasoning¹
 - MTH 31 Calculus and Analytical Geometry (4 Credits)

C. Life and Physical Sciences¹

- CHM 11 General College Chemistry I (4 Credits)

SUBTOTAL 14

Flexible Core

Select two courses from any of the following areas (Flexible Core A-D)², with no more than one course in any area and no more than one course in any discipline or interdisciplinary field (6 Credits):

- A. World Cultures and Global Issues (0-3 Credits)
- B. U.S. Experience in its Diversity (0-3 Credits)
- C. Creative Expression (0-3 Credits)
- D. Individual and Society (0-3 Credits)

The following courses are required:

E. Scientific World¹

- CHM 12 General College Chemistry II (4 Credits)
- PHY 31 Physics I (4 Credits)

SUBTOTAL 14

Major Requirements

- BIO 11 General Biology I (4 Credits)
- BIO 12 General Biology II (4 Credits)
- CHM 31 Organic Chemistry I (5 Credits)
- CHM 32 Organic Chemistry II (5 Credits)
- CHM 33 Quantitative Analysis (4 Credits)
- MTH 32 Analytic Geometry and Calculus II (5 Credits)
- PHY 32³ Physics II (4 Credits)
- Restricted Elective⁴ (1 Credit)

SUBTOTAL 32

¹ This program has received a waiver to require students to complete MTH 31 to fulfill Required Core B, CHM 11 to fulfill Required Core C, CHM 12 to fulfill Flexible Core E and PHY 31 (selected from Flexible Core E) to fulfill the sixth Flexible Core course.

² To fulfill the two-year degree requirements of this Joint Degree with John Jay College, this program has received an additional waiver to allow students to complete a portion of the Common Core requirements prior to transfer and complete the remaining requirements upon transfer.

³ Students who due to their initial placement are required to begin their mathematics studies in MTH 30 (Pre-Calculus) may substitute MTH 30 for PHY 32 (Physics II) to complete the associate degree requirements.

⁴ Any PEA one credit course, or CPR 10, or WFA 10, or ART 10, or MUS 10.