B.S. in Forensic Science: Forensic Chemistry Concentration

B.S. in Forensic Science (120 credits)

Forensic Science is the application of STEM to legal matters. The Bachelor of Science in Forensic Science requires foundational coursework in mathematics and the natural sciences. In addition, students complete the program's forensic science core, which is designed to equip students with a background in forensic science core concepts, evidence collection, technical analysis, data interpretation, and professional regulatory practices. Students complete upper-level courses in one of the program's four concentrations: forensic biology, forensic chemistry, crime scene investigation (CSI), or digital forensics. (*Students should be aware that background checks similar to those required for law enforcement officers are likely to be a condition of employment in this field.)

B.S. in Forensic Science: Forensic Chemistry Concentration

First Year		
1st Semester		**Credits**
CHEM 125	General Chemistry I	3
CHEM 125A	General Chemistry Lab I	1
FYS SEM	First-Year Student Seminar	0
ENGL 101	English Composition: Introduction to Academic Writing	3
MATH 111	Calculus I	4
PHYS 111	Physics I	3
PHYS 111A	Physics I Lab	1
	Term Credits	**15**
2nd Semester		
CHEM 126	General Chemistry II	3
CHEM 126A	Gen Chemistry Lab II	1
ENGL 102	English Composition: Introduction to Writing for Research	3
MATH 112	Calculus II	4
PHYS 121	Physics II	3
PHYS 121A	Physics II Lab	1
	Term Credits	**15**
Second Year		
1st Semester		
Computing GER (https://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/)		3
CHEM 243	Organic Chemistry I	3
FRSC 201	Intro to Forensic Science	3
BIOL 200	Concepts in Biology	4
History and Humanities GER 200 level (https://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
	Term Credits	**16**
2nd Semester		
FRSC 307	Crime Scene Investigation & Lab	4
CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry I Laboratory	2
MATH 333	Probability and Statistics	3
300 or 400 level Forensics Elective I		3
	Term Credits	**15**
Third Year		
1st Semester		
BIOL 201	Foundations of Biology: Cell & Molecular Biology Lecture	3
BIOL 202	Foundations of Biology: Cell & Molecular Biology Lab	1

CHEM 222	Analytical Chemistry	3
FRSC 359	Physical Methods of Forensic Analysis & Lab	4
History and Humanities GER 300+ level (https://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
CHEM 340	Chemistry of Materials	3
	Term Credits	**17**
2nd Semester		
CHEM 221	Analytical Chemical Methods	2
CHEM 473	Biochemistry	3
HIST 320	Law and Evidence	3
CHEM 210	Frontiers in Chemistry	1
300 or 400 level Forensics Elective II		3
	Term Credits	**12**
Fourth Year		
1st Semester		
CHEM 475	Biochemistry Lab I	2
FRSC 475	Forensic Chemistry & Lab	4
Humanities and Social Science Senior Seminar GER (https://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
300 or 400 level Forensics Elective III		3
Free Elective I		3
	Term Credits	**15**
2nd Semester		
CHEM 480	Instrumental Analysis	2
FRSC 480	Forensic Microscopy & Lab	4
EVSC 416	Principles of Toxicology	3
Select one of the following:		3
FRSC 490	Co-op Work Experience	
FRSC 491	Research & Indep Study I	
FRSC 495	Senior Seminar	
Free Elective II		3
	Term Credits	**15**
	Total Credits	**120**