

B.S. in Forensic Science

B.S. in Forensic Science (120 credits)

Forensic science is the application of sciences to matters of law. 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 advanced coursework in analytical chemistry as well as upper-level courses in one of the program's three options: digital forensics, forensic biology, or forensic chemistry. Students must complete the Forensic Science Assessment Test (FSAT) in order to be certified for graduation.

B.S. in Forensic Science: Forensic Biology Option

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

BIOL 200	Concepts in Biology	4
CHEM 243	Organic Chemistry I	3
FRSC 201	Intro to Forensic Science	3
MATH 333	Probability and Statistics	3
Computing GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/)		3
Term Credits		16

2nd Semester

BIOL 201	Found of Biol: Cell & Molecula	3
BIOL 202	Found of Biol: Cell & Molecula	1
CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry II Laboratory	2
FRSC 307	Crime Scene Investigation &Lab	4
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
Term Credits		16

Third Year

1st Semester

BIOL 205	Foundations of Biology: Ecology and Evolution Lecture	3
BIOL 206	Foundations of Biology: Ecology and Evolution Lab	1
CHEM 222	Analytical Chemistry	3
FRSC 359	Physical Methods of Forensic Analysis & Lab	4

History and Humanities GER 300+ level (<http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/>) 3

Term Credits		14
2nd Semester		
BIOL 340	Mammalian Physiology	4
CHEM 221	Analytical Chemical Methods	2
CHEM 473	Biochemistry	3
HIST 320	Law and Evidence	3
R120 356	Molecular Biology	3
Term Credits		15
Fourth Year		
1st Semester		
BIOL 352	Genetics	3
CHEM 475	Biochemistry Lab I	2
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
300 or 400 level Forensics Elective I		3
300 or 400 level Forensics Elective II		3
Term Credits		14
2nd Semester		
FRSC 479	Forensic Biology & Lab	4
FRSC 480	Forensic Microscopy & Lab	4
Select one of the following:		3
FRSC 490	Co-op Work Experience	
FRSC 491	Research & Indep Study I	
FRSC 495	Senior Seminar	
Free Elective		4
Term Credits		15
Total Credits		120

B.S. in Forensic Science: Forensic Chemistry Option

First Year		Credits
1st Semester		
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		
CHEM 231	Physical Chemistry I	3

CHEM 243	Organic Chemistry I	3
FRSC 201	Intro to Forensic Science	3
MATH 211	Calculus III A	3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
Term Credits		15
2nd Semester		
BIOL 200	Concepts in Biology	4
CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry II 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	Found of Biol: Cell & Molecula	3
BIOL 202	Found of Biol: Cell & Molecula	1
CHEM 222	Analytical Chemistry	3
FRSC 307	Crime Scene Investigation & Lab	4
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
Term Credits		14
2nd Semester		
BIOL 205	Foundations of Biology: Ecology and Evolution Lecture	3
BIOL 206	Foundations of Biology: Ecology and Evolution Lab	1
CHEM 221	Analytical Chemical Methods	2
CHEM 473	Biochemistry	3
FRSC 359	Physical Methods of Forensic Analysis & Lab	4
HIST 320	Law and Evidence	3
Term Credits		16
Fourth Year		
1st Semester		
CHEM 475	Biochemistry Lab I	2
FRSC 475	Forensic Chemistry & Lab	4
Computing GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/)		3
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
300 or 400 level Forensics Elective II		3
Term Credits		15
2nd Semester		
CHEM 480	Instrumental Analysis	2
FRSC 480	Forensic Microscopy & Lab	4
Select one of the following:		3
FRSC 490	Co-op Work Experience	
FRSC 491	Research & Indep Study I	
FRSC 495	Senior Seminar	
Free Elective I		3
Free Elective II		3
Term Credits		15
Total Credits		120

B.S. in Forensic Science – Digital Forensics Option (120 credits)

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**

CS 100	Roadmap to Computing	3
FRSC 201	Intro to Forensic Science	3
CHEM 222	Analytical Chemistry	3
IT 120	Introduction to Network Technology	3
MATH 333	Probability and Statistics	3
Term Credits		15

2nd Semester

CS 113	Introduction to Computer Science	3
FRSC 307	Crime Scene Investigation & Lab	4
CHEM 221	Analytical Chemical Methods	2
IT 220	Wireless Networks	3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
Term Credits		15

Third Year**1st Semester**

FRSC 359	Physical Methods of Forensic Analysis & Lab	4
IT 202	Internet Applications	3
IT 230	Computer and Network Security	3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
300 or 400 level Forensics Elective I		3
Term Credits		16

2nd Semester

FRSC 480	Forensic Microscopy & Lab	4
HIST 320	Law and Evidence	3
IS 331	Database Design Management and Applications	3
300 or 400 level Forensics Elective II		3
Term Credits		13

Fourth Year**1st Semester**

Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)	3
IT 330 Computer Forensic	3
IT 340 Introduction to System Administration	3
Free Elective I	3
Free Elective II	3
Term Credits	15

2nd Semester

IT 332 Digital Crime	3
IT 400 Information Technology and the Law	3
IT 430 Ethical Hacking for System Administrators	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 III	4
Term Credits	16
Total Credits	120

See the **General Education Requirements** "Refer to the General Education Requirements for specific information for GER courses"