

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.

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 I 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**

Computing GER (http://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 (http://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 Found of Biol: Cell & Molecula	3
BIOL 202 Found of Biol: Cell & Molecula	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
CHEM 340 Chemistry of Materials	3
Term Credits	17

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
HIST 320 Law and Evidence	3
CHEM 210 Frontiers in Chemistry	1
Term Credits	13

Fourth Year**1st Semester**

CHEM 475 Biochemistry Lab I	2
FRSC 475 Forensic Chemistry & Lab	4
EVSC 416 Principles of Toxicology	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	2
Term Credits	14
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
IT 101	Introduction to Information Technology	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 I	3
FRSC 307	Crime Scene Investigation & Lab	4
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
300 or 400 level Forensics Elective I		3
Term Credits		16

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 II		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 III		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		3
Term Credits		15
Total Credits		120

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