

# 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
<b>Term Credits</b>		<b>15</b>

### 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
<b>Term Credits</b>		<b>15</b>

### 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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/</a> )		3
<b>Term Credits</b>		<b>16</b>

#### 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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/</a> )		3
<b>Term Credits</b>		<b>16</b>

### 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

<b>Term Credits</b>		<b>14</b>
<b>2nd Semester</b>		
BIOL 340	Mammalian Physiology	4
CHEM 221	Analytical Chemical Methods	2
CHEM 473	Biochemistry	3
HIST 320	Law and Evidence	3
BIOL 356	Molecular Biology	3
<b>Term Credits</b>		<b>15</b>
<b>Fourth Year</b>		
<b>1st Semester</b>		
BIOL 352	Genetics	3
CHEM 475	Biochemistry Lab I	2
Humanities and Social Science Senior Seminar GER ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/</a> )		3
300 or 400 level Forensics Elective I		3
300 or 400 level Forensics Elective II		3
<b>Term Credits</b>		<b>14</b>
<b>2nd Semester</b>		
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
<b>Term Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

#### B.S. in Forensic Science: Forensic Chemistry Option

<b>First Year</b>		<b>Credits</b>
<b>1st Semester</b>		
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
<b>Term Credits</b>		<b>15</b>
<b>2nd Semester</b>		
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
<b>Term Credits</b>		<b>15</b>

**Second Year****1st Semester**

Computing GER ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/computer-science-ger/</a> )	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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/</a> )	3
<b>Term Credits</b>	<b>16</b>

**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
<b>Term Credits</b>	<b>15</b>

**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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/</a> )	3
CHEM 340 Chemistry of Materials	3
<b>Term Credits</b>	<b>17</b>

**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
<b>Term Credits</b>	<b>13</b>

**Fourth Year****1st Semester**

CHEM 475 Biochemistry Lab I	2
FRSC 475 Forensic Chemistry & Lab	4
Humanities and Social Science Senior Seminar GER ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/</a> )	3
300 or 400 level Forensics Elective II	3
Free Elective I	3
<b>Term Credits</b>	<b>15</b>

**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	2
<b>Term Credits</b>	<b>14</b>
<b>Total Credits</b>	<b>120</b>

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

**First Year**

<b>1st Semester</b>		<b>Credits</b>
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
<b>Term Credits</b>		<b>15</b>

**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
<b>Term Credits</b>		<b>15</b>

**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
<b>Term Credits</b>		<b>15</b>

**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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/</a> )		3
300 or 400 level Forensics Elective I		3
<b>Term Credits</b>		<b>16</b>

**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 ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/</a> )		3
300 or 400 level Forensics Elective II		3
<b>Term Credits</b>		<b>16</b>

**2nd Semester**

FRSC 480	Forensic Microscopy & Lab	4
HIST 320	Law and Evidence	3
IS 331	Database Design Management and Applications	3

FRSC 365	Mobile Device Forensics	3
<b>Term Credits</b>		<b>13</b>
<b>Fourth Year</b>		
<b>1st Semester</b>		
Humanities and Social Science Senior Seminar GER ( <a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/</a> )		3
IT 330	Computer Forensic	3
IT 340	Introduction to System Administration	3
Free Elective I		3
Free Elective II		3
<b>Term Credits</b>		<b>15</b>
<b>2nd Semester</b>		
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
<b>Term Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

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