

# B.S. in Biochemistry and Forensic Science (Forensic Biology option)

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(129 Credits)

**First Year**

<b>1st Semester</b>		<b>Credits</b>
CHEM 121 or CHEM 125	Fundamentals of Chemical Principles I or General Chemistry I	3
CHEM 125A	General Chemistry Lab I	1
ENGL 101	English Composition: Introduction to Academic Writing	3
MATH 111	Calculus I <sup>a</sup>	4
FYS SEM	First-Year Student Seminar	0
BIOL 200	Concepts in Biology	4
<b>Term Credits</b>		<b>15</b>

**2nd Semester**

CHEM 122 or CHEM 126	Fundamentals of Chemical Principles II or General Chemistry II	3
CHEM 126A	Gen Chemistry Lab II	1
MATH 112	Calculus II	4
ENGL 102	English Composition: Introduction to Writing for Research	3
BIOL 201	Found of Biol: Cell & Molecula	3
BIOL 202	Found of Biol: Cell & Molecula	1
<b>Term Credits</b>		<b>15</b>

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

CHEM 222	Analytical Chemistry	3
CHEM 243	Organic Chemistry I	3
MATH 211	Calculus III A	3
PHYS 111	Physics I	3
PHYS 111A	Physics I Lab	1
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**

CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry I Laboratory	2
CHEM 221	Analytical Chemical Methods	2
PHYS 121	Physics II	3
PHYS 121A	Physics II Lab	1
BIOL 205	Foundations of Biology: Ecology and Evolution Lecture	3
BIOL 206	Foundations of Biology: Ecology and Evolution Lab	1
<b>Term Credits</b>		<b>15</b>

**Third Year****1st Semester**

CHEM 473	Biochemistry	3
CHEM 475	Biochemistry Lab I	2
CHEM 231	Physical Chemistry I	3
FRSC 201	Intro to Forensic Science	3
MATH 333	Probability and Statistics	3
<b>Term Credits</b>		<b>14</b>

**2nd Semester**

CHEM 235	Physical Chemistry II	3
FRSC 307	Crime Scene Investigation & Lab	4
CHEM 474	Biochemistry II	3
R120 356	Molecular Biology	3
<b>Term Credits</b>		<b>13</b>

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

CHEM 235A	Physical Chemistry II Laboratory	2
BNFO 135	Programming for Bioinformatics	3
BIOL 352	Genetics	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
<b>Term Credits</b>		<b>15</b>

**2nd Semester**

HIST 320	Law and Evidence	3
FRSC 479	Forensic Biology & Lab	4
FRSC 480	Forensic Microscopy & Lab	4
CHEM 480	Instrumental Analysis	2
<b>Term Credits</b>		<b>13</b>

**Fifth Year****1st Semester**

BIOL 340	Mammalian Physiology	4
EVSC 385	Environmental Microbiology	3
FRSC 490	Co-op Work Experience	3
or FRSC 491	or Research & Indep Study I	
or FRSC 495	or Senior Seminar	
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
<b>Term Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>129</b>

a Students who do not place initially into Math 111 must take the prerequisite(s) first and catch up to the math sequence ASAP.