



HUDSON COUNTY COMMUNITY COLLEGE

Associate of Science  
Medical Science Pre-Professional

NEW JERSEY CITY UNIVERSITY

Bachelor of Art  
Biology

AY 2025-2026

Course Number	Course Name	Credits		Course Number	Course Name	Credits	Notes
<b>Complete The Following Courses for Gen Ed Requirements:</b>							
CSS100	College Student Success	1	=	INTD101	Orientation to College	1	
ENG101	College Composition I	3	=	ENGL101	English Composition I	3	
ENG102	College Composition II	3	=	ENGL102	English Composition II	3	
ENG112	Speech	3	=	ENGL147	Effective Speaking	3	
MAT110	Precalculus	4	=	MATH175	Precalculus	4	
CSC100	Intro to Computers and Computing	3	=	CS107	Computers & Information Systems	3	
BIO111	Anatomy and Physiology I	4	=	BIOL236	Anatomy and Physiology I	4	
PSY101	Introduction to Psychology	3	=	PSYC110	Introduction to Psychology	3	
1 Humanities Elect	TBD	3	=	TBD		3	
1 Diversity Elective	TBD	3	=	TBD		3	
1 Humanities or So	TBD	3	=	TBD		3	
<b>Complete The Following Courses for Major Requirements:</b>							
BIO211	Anatomy and Physiology II	4	=	BIOL237	Anatomy and Physiology II	4	
BIO115	Principles of Biology I	4	=	BIOL130	Principles of Biology I	4	
HLT210	Medical Law and Ethics	3	=	HLTH2XX	Health Sciences Elective Credits	3	
BIO116	Principles of Biology II	4	=	BIOL131	Principles of Biology II	4	
<b>Complete 1 of the Following Courses:</b>							
BIO250	Microbiology	4	=	BIOL303	Microbiology	4	
PHY113	Physics I	4	=	PHYS140+1140	Principles of Physics I + Lab	4	
<b>Complete 1 Group of Courses for Electives:</b>							
<b>Pre-Medicine/Pharmacy:</b>							
CHP111	College Chemistry I	4	=	CHEM 105+1105	General Chemistry I Lecture and Recitation/Labatory	4	NJCU Recommends
CHP211	College Chemistry II	4	=	CHEM 106+1106	General Chemistry II Lecture and Recitation/Labatory	4	NJCU Recommends
<b>Pre-Physical Therapy/Pre-Athletic Trainer</b>							
EXS101	Intro to Exercise Science	2	=	FES207	Introduction to Exercise Science	2	
HLT111	Introduction to Healthcare	2	=	HLTH1XX	Health Sciences Elective Credits	2	
EXS203	Exercise Measurement and Prescription	4	=	FES325	Exercise Testing and Prescription	4	
<b>Pre-Health Sciences</b>							
MDA106	Medical Terminology	3	=	HLTH1XX	Health Sciences Elective Credits	3	
HLT112	Pathophysiology	3	=	BIOL311	Pathophysiology	3	
HLT111	Introduction to Healthcare	2	=	HLTH1XX	Health Sciences Elective Credits	2	

Total Credits Transferred

60

General Education Waiver Awarded

## Remaining NJCU Courses

Course Number	Course Name	Credits	Notes
	<b>Required Biology Courses:</b>	<b>13</b>	
BIOL 130	Principles Biology I	0	Satisfied with transfer
BIOL 131	Principles Biology II	0	Satisfied with transfer
BIOL 230	Cell Biology	4	
BIOL 304	Genetics	4	
BIOL 402	Ecology	4	
or BIOL 332	Field Ecology		
BIOL 440	Biology Seminar	1	
	<b>Elective Biology Courses</b>	<b>3</b>	
BIOL 217	Life In The Sea	3	
BIOL 231	Comparative Anatomy	4	
BIOL 232	Invertebrate Zoology	4	
BIOL 233	Principles of Botany	4	
BIOL 236	Anatomy & Physiology I	0	Satisfied with transfer
BIOL 237	Anatomy & Physiology II	0	Satisfied with transfer
BIOL 252	Evolution: A Biological and Geological Approach	3	
BIOL 301	General Physiology	4	
BIOL 302	Plant Physiology	4	
BIOL 303	Microbiology	0	Satisfied with transfer
BIOL 305	Histology	4	
BIOL 308	Plant Taxonomy	4	
BIOL 311	Pathophysiology	3	
BIOL 312	Endocrinology	3	
BIOL 332	Field Ecology	4	
BIOL 335	Essential Concepts in Neuroscience	3	
BIOL 350	Biology Research	2	
BIOL 401	Developmental Biology	4	
BIOL 403	Radiation Biology	4	
BIOL 404	Immunology	3	
BIOL 406	Molecular Genetics	4	

BIOL 407	Advanced Cell Biology	4	
BIOL 418	Scanning Electron Microscopy	4	
BIOL 450	Biology Research	3	
<b>Required Chemistry Courses</b>		<b>0</b>	
CHEM 105	General Chemistry I Lecture	0	Satisfied with transfer
CHEM 1105	General Chemistry I Recitation/Laboratory	0	Satisfied with transfer
CHEM 106	General Chemistry II Lecture	0	Satisfied with transfer
CHEM 1106	General Chemistry II Recitation/Laboratory	0	Satisfied with transfer
<b>Required Physics Course</b>		<b>0</b>	
PHYS 101	Basic Concepts of Physics	0	Satisfied with Transfer of PHYS140
<b>Required Math and Computer Science Courses</b>		<b>3</b>	
MATH 175	Enhanced Precalculus	0	Satisfied with transfer
INTD 180	Computer Tools For Science and Mathematics	3	
or MATH 140	Statistics I		NJCU Recommends MATH140
or PSYC 230	Statistics for Social Sciences		
<b>Free Elective Courses</b>		<b>41</b>	
<b>Minimum Total Credits To Graduate</b>		<b>120</b>	

Students must successfully complete a minimum of 5 Biology major courses at NJCU.

Credits earned for Biology courses more than 10 years ago may not satisfy department requirements.

Students may apply up to 6 credits of Biology Research or Coop Education toward the BA in Biology requiremer