



HUDSON COUNTY COMMUNITY COLLEGE

Associate of Science
Medical Sciences - Pre Nursing Option

NEW JERSEY CITY UNIVERSITY

Bachelor of Science
Biology

AY 2025-2026

Course Number	Course Name	Credits	Course Number	Course Name	Credits	Notes
Complete The Following Courses for Gen Ed Requirements:						
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	
PSY101	Introduction to Psychology	3	= PSYC110	Introduction to Psychology	3	
Complete 1 Math Course Below:						
MAT100	College Algebra	3	= MATH112	Intermediate Algebra	3	
MAT114	Introduction to Probability and Statistics	3	= MATH140	Statistics I	3	NJCU Recommends
CSC100	Intro to Computers and Computing	3	= CS107	Computers & Information Systems	3	
BIO111	Anatomy and Physiology I	4	= BIOL236	Anatomy and Physiology I	4	
PSY260	Lifespan Development	3	= PSYC152	Development Adolescence to Adulthood	3	
HUM101	Cultures and Values	3	= WGST110	Diversity and Difference: Identities, Communities, and Cultures	3	
1 Humanities or Social Science Elective		3	= TBD		3	
Complete The Following Courses for Major Requirements:						
BIO211	Anatomy and Physiology II	4	= BIOL237	Anatomy and Physiology II	4	
BIO115	Principles of Biology I	4	= BIOL130	Principles of Biology I	4	
BIO116	Principles of Biology II	4	= BIOL131	Principles of Biology II	4	
HLT210	Medical Law and Ethics	3	= HLTH2XX	Health Sciences Elective Credits	3	
BIO250	Microbiology	4	= BIOL303	Microbiology	4	
Complete 3 of the Following Courses:						
MDA106	Medical Terminology	3	= HLTH1XX	Health Sciences Elective Credits	3	
MDA224	Pharmacology	3	= Not Transferable			
HLT112	Pathophysiology	3	= BIOL311	Pathophysiology	3	NJCU Recommends
HLT110	Culture, Diversity, and Health	3	= HLTH1XX	Health Sciences Elective Credits	3	
CHP100	Introduction to Chemistry	3	= CHEM100	Preperation for General Chemistry	3	

Total Credits Transferred

60

General Education Waiver Awarded

Remaining NJCU Courses

Course Number	Course Name	Credits	Notes
Required Courses			13
BIOL 130	Principles Biology I	0	This will transfer in
BIOL 131	Principles Biology II	0	This will transfer in
BIOL 230	Cell Biology	4	
BIOL 304	Genetics	4	
BIOL 402	Ecology	4	
or BIOL 332	Field Ecology		
BIOL 440	Biology Seminar	1	
Biology Electives			0-3
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	This will transfer in
BIOL 237	Anatomy & Physiology II	0	This will transfer in
BIOL 252	Evolution: A Biological and Geological Approach	3	
BIOL 301	General Physiology	4	
BIOL 302	Plant Physiology	4	
BIOL 303	Microbiology	0	This will transfer in
BIOL 305	Histology	4	
BIOL 308	Plant Taxonomy	4	
BIOL 311	Pathophysiology	0-4	This will transfer in
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	

Required Chemistry Courses		18
CHEM 105	General Chemistry I Lecture	3
CHEM 1105	General Chemistry I Recitation/Laboratory	2
CHEM 106	General Chemistry II Lecture	3
CHEM 1106	General Chemistry II Recitation/Laboratory	2
CHEM 207	Organic Chemistry I	3
CHEM 2207	Organic Chemistry I Laboratory	1
CHEM 208	Organic Chemistry II	3
or CHEM 205	Analytical Chemistry Lec	
or CHEM 307	Biochemistry I	
or BIOL 401	Developmental Biology	
or BIOL 403	Radiation Biology	
or BIOL 404	Immunology	
or BIOL 406	Molecular Genetics	
or BIOL 407	Advanced Cell Biology	
or BIOL 410	Electron Microscopy	
or BIOL 418	Scanning Electron Microscopy	
or BIOL 450	Biology Research	
And CHEM 2208 Organic Chemistry Laboratory		1*
Required Physics Courses		8
PHYS 140	Principles of Physics I - Lecture	3
PHYS 1140	Principles of Physics I - Laboratory and recitation	1
PHYS 141	Principles of Physics II - Lecture	3
PHYS 1141	Principles of Physics II - Laboratory and Recitation	1
Required Math and Computer Science Courses		4
MATH 192	Calculus and Analytic Geometry I	4
INTD 180	Computer Tools For Science and Mathematics	
or MATH 140	Statistics I	0
or PSYC 230	Statistics for Social Sciences	This will transfer in
Free Elective Courses		17
Minimum Total Credits To Graduate		120

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 requirements.