



HUDSON COUNTY COMMUNITY COLLEGE

NEW JERSEY CITY UNIVERSITY

AY 2025-2026

Associate of Science
Medical Sciences - Pre Nursing Option**Bachelor of Art**
Biology

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		10
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
Required Physics Course		3
PHYS 101	Basic Concepts of Physics	3
Required Math and Computer Science Courses		4
MATH 175	Enhanced Precalculus	4
INTD 180 or MATH 140	Computer Tools For Science and Mathematics Statistics I	0
or PSYC 230	Statistics for Social Sciences	This will transfer in
Free Elective Courses		30
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 requirement.