



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
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	
MAT 110	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 Electi TBD		3	=	TBD		3	
1 Diversity Elective TBD		3	=	TBD		3	
1 Humanities or So TBD		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	
HLT210	Medical Law and Ethics	3	=	HLTH2XX	Health Sciences Elective Credits	3	
BIO116	Principles of Biology II	4	=	BIOL131	Principles of Biology II	4	
Complete 1 of the Following Courses:							
BIO250	Microbiology	4	=	BIOL303	Microbiology	4	
PHY113	Physics I	4	=	PHYS140+1140	Principles of Physics I + Lab	4	
Complete 1 Group of Courses for Electives:							
Pre-Medicine/Pharmacy:							
CHP111	College Chemistry I	4	=	CHEM 105+1105	General Chemistry I Lecture and Recitation/Labratory	4	NJCU Recommends
CHP211	College Chemistry II	4	=	CHEM 106+1106	General Chemistry II Lecture and Recitation/Labratory	4	NJCU Recommends
Pre-Physical Therapy/Pre-Athletic Trainer							
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	
Pre-Health Sciences							
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

Remaing NJCU Courses

Course Number	Course Name	Credits	Notes
Required Biology Courses:		13	
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	
Elective Biology Courses		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	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	
Required Chemistry Courses		0	
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
Required Physics Course		0	
PHYS 101	Basic Concepts of Physics	0	Satisfied with Transfer of PHYS140
Required Math and Computer Science Courses		3	
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		
Free Elective Courses		41	
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 requirement.