



HUDSON COUNTY COMMUNITY COLLEGE

Associate of Science
Chemistry

AY 2025-2026

NEW JERSEY CITY UNIVERSITY

Bachelor of Science
Biochemistry

Course Number	Course Name	Credits		Course Number	Course Name	Credits	Notes
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	
BIO100	General Biology	3	=	BIOL100	General Biology	4	
MAT111	Calculus I	4	=	MATH192	Calculus and Analytic Geometry I	4	
MAT112	Calculus II	4	=	MATH193	Calculus and Analytic Geometry II	4	
CSC100	Intro to Computers and Computing	3	=	CS107	Computer and Information Systems	3	
ENG112	Speech	3		ENGL147	Effective Speaking	3	
1 Social Science Elective		3	=	TBD		3	
1 Social Science or Humanities Elective		3	=	TBD		3	
1 Humanities Elective		3	=	TBD		3	
CHP111	College Chemistry I	4	=	CHEM 105 + 1105	General Chemistry I Lecture and Recitation	5	
CHP211	College Chemistry II	4	=	CHEM 106 + 1106	General Chemistry II Lecture and Recitation	5	
CHP225	Organic Chemistry I	4	=	CHEM 207 + 2207	Organic Chemistry I Lecture and Lab	4	
CHP230	Organic Chemistry II	4	=	CHEM 208 + 2208	Organic Chemistry II Lecture and Lab	4	
PHY111	Engineering Physics I	4	=	PHYS140 + 1140	Principles of Physics I Lecture, Lab and Rec	4	
PHYS211	Engineering Physics II	4	=	PHYS141 + 1141	Principles of Physics II Lecture, Lab and Rec	4	
1 Approved Science Elective							
MAT114	Introduction to Probabilities and Statistics	3	=	MATH140	Statistics I	3	NJCU Recommends
CSC115	Programming in C++ for CS	3	=	CS102	Computer Science II	3	
CSC118	Python Programming	3	=	CS252	Programming for All in Python and Computer Science Principles	3	
CSC117	Java Programming	3	=	CS101	Computer Science I	3	

Total Credits Transferred

60

General Education Waiver Awarded

Remaining NJCU Courses

Course Number	Course Name	Credits	Notes
Pre-Requisite Courses			
MATH 175	Enhanced Precalculus	0	Satisfied by transfer (MATH192)
CHEM 100	Preparation for General Chemistry	0	Satisfied by transfer for having higher level (CHEM105)
PHYS 100	Preparation for Physics	0	Satisfied by transfer for having higher level (PHYS140)
Mathematics and Physics			
MATH 140	Statistics I	0-3	This will be satisfied with transfer
MATH 192	Calculus and Analytic Geometry I	0	This will be satisfied with transfer
MATH 193	Calculus and Analytic Geometry II	0	This will be satisfied with transfer
PHYS 140	Principles of Physics I - Lecture	0	This will be satisfied with transfer
PHYS 1140	Principles of Physics I - Laboratory and recitation	0	This will be satisfied with transfer
PHYS 141	Principles of Physics II - Lecture	0	This will be satisfied with transfer
PHYS 1141	Principles of Physics II - Laboratory and Recitation	0	This will be satisfied with transfer
Chemistry and Biology			
CHEM 105	General Chemistry I Lecture	0	This will be satisfied with transfer
CHEM 1105	General Chemistry I Recitation/Laboratory	0	This will be satisfied with transfer
CHEM 106	General Chemistry II Lecture	0	This will be satisfied with transfer
CHEM 1106	General Chemistry II Recitation/Laboratory	0	This will be satisfied with transfer
CHEM 205	Analytical Chemistry Lec	3	Fall Only
or CHEM 316	Instrumental Analysis, Lecture		Spring Only
CHEM 2205	Analytical Chemistry Laboratory	2	Fall Only
or CHEM 3316	Instrumental Methods of Analysis, Laboratory		Spring Only
CHEM 207	Organic Chemistry I	0	This will be satisfied with transfer
CHEM 2207	Organic Chemistry I Laboratory	0	This will be satisfied with transfer
CHEM 208	Organic Chemistry II	0	This will be satisfied with transfer
CHEM 2208	Organic Chemistry II Laboratory	0	This will be satisfied with transfer
CHEM 305	Physical Chemistry I	3	
CHEM 307	Biochemistry I	4	
CHEM 308	Biochemistry II	4	
CHEM 405	Seminar	1	
BIOL 130	Principles Biology I	4	
BIOL 131	Principles Biology II	4	
BIOL 230	Cell Biology	4	
BIOL 303	Microbiology	4	
BIOL 304	Genetics	4	
Required Elective Courses			
CHEM 220	Environmental Chemistry	4	
CHEM 316	Instrumental Analysis, Lecture	3	
CHEM 3316	Instrumental Methods of Analysis, Laboratory	2	
CHEM 401	Medicinal Chemistry	3	
CHEM 420	Food Chemistry	4	
CHEM 492	Chemical Research 1	2-3	
or CHEM 493	Chemical Research		
or BIOL 350	Biology Research		
or BIOL 450	Biology Research		
BIOL 252	Evolution: A Biological and Geological Approach	3	
BIOL 301	General Physiology	4	
BIOL 404	Immunology	3	
BIOL 406	Molecular Genetics	4	
Free Elective Courses			
		13-16	
Total Credits To Graduate			
		120	