Associate of Science in Biology to Bachelor of Science in Biochemistry

HCCC Biology A.S.				NJCU Biochemistry B.S.		
Course Number	**Course Name**	**Credits**		**Course Number**	**Course Name**	**Credits**
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
BIO115	Principles of Biology I	4	=	BIOL130	Principles of Biology I	4
BIO116	Principles of Biology II	4	=	BIOL131	Principles of Biology II	4
BIO111	Anatomy and Physiology I	4	=	BIOL236	Anatomy and Physiology I	4
BIO211	Anatomy and Physiology II	4	=	BIOL237	Anatomy and Physiology II	4
PSY101	Introduction to Psychology	3	=	PSYC110	Introduction to Psychology	3
SOC101	Introduction to Sociology	3	=	SOCI111	Principles of Sociology	3
HUM101	Cultures and Values	3	=	WGST110	Diversity and Difference: Identities, Communities, and Cultures	3
CHP111	College Chemistry I	4	=	CHEM 105+1105	General Chemistry I Lecture and Recitation/Labratory	4
PHY113	Physics I	4	=	PHYS130+1131	College Physics I + Lab	4
BIO230	Histology	4	=	BIOL305	Histology	4
BIO 270	Cell Biology	4	=	BIOL230	Cell Biology	4
CHP211	College Chemistry II	4	=	CHEM 106+1106	General Chemistry II Lecture and Recitation/Labratory	4
Complete 1 Math Course:						
MAT110	Precalculus	4	=	MATH175	Enhanced Precalculus	4
MAT111	Calculus I	4	=	MATH192 (Recommended)	Calculus and Analytical Geometry I	4
Take 4 credits below:						
BIO208	Ecology	4	=	BIOL402	Ecology	4
BIO250	Microbiology	4	=	BIOL303 (Recommended)	Microbiology	4
BTN201	Molecular Biology	4	=	BIOL2XX	Biology Elective Credits	4
BIO260	Molecular Biology	4	=	BIOL2XX	Biology Elective Credits	4
MAT111	Calculus I	4	=	MATH192	Calculus and Analytical Geometry I	4
MAT112	Calculus II	4	=	MATH193 OR (Recommended)	Calculus and Analytic Geometry II	4

Total Credits Transferred 60

General Education Waiver Awarded!

Approved April 2024

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME		CREDITS
Math and Physics		**7-15**	
MATH 140	Statistics I	3	
MATH 192	Calculus and Analytic Geometry I	0-4	
	(Note: This course may transfer in)		
MATH 193	Calculus and Analytic Geometry II	0-4	
	(Note: This course may transfer in)		
PHYS 131	Physics II (Lecture)	3	
PHYS 1131	Physics II Recitation & Laboratory	1	
Chemistry and Biology		**29-33**	
CHEM 205	Analytical Chemistry Lec	3	Fall Only
CHEM 2205	Analytical Chemistry Laboratory	2	Fall Only
CHEM 207	Organic Chemistry I	3	
CHEM 2207	Organic Chemistry I Laboratory	1	
CHEM 208	Organic Chemistry II	3	
CHEM 2208	Organic Chemistry II Laboratory	1	
CHEM 305	Physical Chemistry I	3	Fall Only
CHEM 307	Biochemistry I	4	
CHEM 308	Biochemistry II	4	Spring Only
CHEM 405	Seminar	1	
BIOL 303	Microbiology	0-4	
	(Note: This course may transfer in)		
BIOL 304	Genetics	4	
Required elective courses: select from the following courses		**7**	
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	
BIOL 252	Evolution: A Biological and Geological Approach	3	
BIOL 404	Immunology	3	
BIOL 406	Molecular Genetics	4	
CHEM 492	Chemical Research	2-3	
or CHEM 493	Chemical Research		
or BIOL 350	Biology Research		
or BIOL 450	Biology Research		
Free Elective Courses		**5-17**	
Total Credits To Graduate		**120**	