



High School Bridge Program

Associates of Science General Science to Bachelor of Science Biochemistry

HCCC General Science - AS

COURSE NUMBER	COURSE NAME	CREDITS
Freshman Year		
CSS100	College Student Success	1
ENG101	College Composition I	3
MAT100	Intermediate Algebra	3
CSC100	Intro to Computers & Computing	3
ENG112	Speech	3
BIO100	General Biology	3
Sophomore Year		
ENG102	College Composition II	3
CHP111	College Chemistry I	4
1 Social Science Elective		3
1 Social Science Elective		3
Junior Year		
MAT110	Precalculus	4
CHP211	College Chemistry II	4
PHY111	Engineering Physics I	4
BIO111	Anatomy and Physiology I	4
Senior Year		
PHY211	Engineering Physics II	4
MAT111	Calculus I	4
1 Humanities Elective		3
BIO211	Anatomy and Physiology II	4

NJCU Biochemistry - BS

COURSE NUMBER	COURSE NAME	CREDITS
INTD101	Orientation to College	1 HCCC (online)
ENGL101	English Composition I	3 INHS
MATH112	Intermediate Algebra	3 INHS
CS107	Computer & Information Systems	3 HCCC
ENGL147	Effective Speech	3 INHS
BIOL100	General Biology	3 INHS
Sophomore Year		
ENGL102	English Composition II	3 HCCC
CHEM 105+1105	General Chemistry I Lecture and Recitation/Lab	4 INHS
TBD		3 HCCC/NJCU
TBD		3 HCCC/NJCU
Junior Year		
MATH175	Enhanced Precalculus	4 INHS
CHEM 106+1106	General Chemistry II Lecture and Recitation/Lab	4 INHS
PHYS140+1140	Principles of Physics I + Lab	4 INHS
BIOL236	Anatomy and Physiology I	4 INHS
Senior Year		
PHYS141+1141	Principles of Physics II + Lab	4 HCCC
MATH192	Calculus and Analytical Geometry I	4 HCCC
TBD		3 HCCC
BIOL237	Anatomy and Physiology II	4 HCCC

Total Credits 60 General Education Waived

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS
Required Math and Physics Courses		7
PHYS 140	Principles of Physics I	0 *
PHYS 1140	Principles of Physics I Laboratory and Recitation	0 *
PHYS 141	Principles of Physics II	0 *
PHYS 1141	Principles of Physics II Laboratory and Recitation	0 *
MATH192	Calculus and Analytical Geometry I	0 *
MATH193	Calculus and Analytical Geometry II	4
MATH140	Statistics	3
Required Biology and Chemistry Courses		44
CHEM 105	General Chemistry I Lecture	0 *
CHEM 1105	General Chemistry I Recitation/Laboratory	0 *
CHEM 106	General Chemistry II Lecture	0 *
CHEM 1106	General Chemistry II Recitation/Laboratory	0 *
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	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	3 Spring only
CHEM 405	Seminar	1 Fall only
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 (7 Credits)		7
CHEM 220	Environmental Chemistry	4
CHEM 316	Instrumental Analysis, Lecture	3
or CHEM 205	Analytical Chemistry Lec	3
CHEM 3316	Instrumental Methods of Analysis, Laboratory	2
or CHEM 2205	Analytical Chemistry Lab	2
CHEM 401	Medicinal Chemistry	3
CHEM 420	Food Chemistry	4
CHEM 492	Chemical Research	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		2

Notes:

* This will transfer in

** Only one can go towards Major Required Electives

Minimum Total Credits To Graduate 120