



High School Bridge Program

Associates of Science General Science to Bachelor of Science Biology

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
BIO211	Anatomy and Physiology II	4
1 Humanities Elective		3

NJCU Biology - 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
BIOL237	Anatomy and Physiology II	4 HCCC
TBD		3 HCCC

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS	COURSE NUMBER	COURSE NAME	CREDITS
Required Courses			Required Chemistry Courses		
BIOL 130	Principles Biology I	4	CHEM 105	General Chemistry I Lecture	0 *
BIOL 131	Principles Biology II	4	CHEM 1105	General Chemistry I Recitation/Laboratory	0 *
BIOL 230	Cell Biology	4	CHEM 106	General Chemistry II Lecture	0 *
BIOL 304	Genetics	4	CHEM 1106	General Chemistry II Recitation/Laboratory	0 *
Select one of the two following Ecology courses:			CHEM 207	Organic Chemistry I	3
BIOL 402	Ecology	4	CHEM 2207	Organic Chemistry I Laboratory	1
or			CHEM 208	Organic Chemistry II	3
BIOL 332	Field Ecology	4	or CHEM 205	Analytical Chemistry Lec	
BIOL 440	Biology Seminar	1	or CHEM 307	Biochemistry I	
Elective Biology Courses (15 credits from below)			or BIOL 401	Developmental Biology	
BIOL 231	Comparative Anatomy	4	or BIOL 403	Radiation Biology	
BIOL232	Invertebrate Zoology	4	or BIOL 404	Immunology	
BIOL233	Principles of Botany	4	or BIOL 406	Molecular Genetics	
BIOL236	Anatomy and Physiology I	0 *	or BIOL 407	Advanced Cell Biology	
BIOL237	Anatomy and Physiology II	0 *	or BIOL 410	Electron Microscopy	
BIOL240	Scientific Reasoning	3	or BIOL 418	Scanning Electron Microscopy	
BIOL250	Biology Research	1	or BIOL 450	Biology Research	
BIOL252	Evolution: A Biol and Geological Approach	3	And CHEM 2208	Organic Chemistry Laboratory	1
BIOL301	General Physiology	4	Required Math, Physics, and Computer Science Courses		
BIOL302	Plant Physiology	4	PHYS 140	Principles of Physics I	0 *
BIOL303	Microbiology	4	PHYS 1140	Principles of Physics I Lab and Recitation	0 *
BIOL308	Plant Taxonomy	4	PHYS 141	Principles of Physics II	0 *
BIOL311	Pathophysiology	3	PHYS 1141	Principles of Physics II Lab and Recitation	0 *
BIOL312	Endocrinology	3	MATH192	Calculus and Analytical Geometry I	0 *
BIOL335	Essential Concepts in Neuroscience	3	INTD180	Computer Tools for Science and Math	3
BIOL350	Biology Research	2	or		
BIOL354	Professional Assistant	2	MATH 140	Statistics I	3
BIOL401	Developmental Biology	4	or		
BIOL 403	Radiation Biology	4	PSYC 230	Statistics for Social Sciences	3
BIOL404	Immunology	3			
BIOL406	Molecular Genetics	4			
BIOL 407	Advanced Cell Biology	4			
BIOL409	Biological Chemistry	3			
BIOL410	Electron Microscopy	4			
BIOL418	Scanning Electron Microscopy	4			
BIOL419	Transmission Electron Microscopy	4			
BIOL450	Biology Research	3			
BIOL454	Professional Assistant	3			
BIOL492	Independent Study in Biology	3			
BIOL1492	Independent Study in Biology	2			
BIOL2492	Independent Study in Biology	1			
Free Elective Courses		21			

Notes:

* This will transfer in

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 BS in Biology requirements.