



High School Bridge Program

Associates of Science General Science to Bachelor of Arts 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
1 Humanities Elective		3
BIO211	Anatomy and Physiology II	4

NJCU Biology - BA

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 Courses		
BIOL 130	Principles Biology I	4
BIOL 131	Principles Biology II	4
BIOL 230	Cell Biology	4
BIOL 304	Genetics	4
Select one of the two following Ecology courses:		
BIOL 402	Ecology	4
or BIOL 332	Field Ecology	
BIOL 440	Biology Seminar	1
Elective Biology Courses (15 credits from below)		
BIOL 231	Comparative Anatomy	4
BIOL232	Invertebrate Zoology	4
BIOL233	Principles of Botany	4
BIOL236	Anatomy and Physiology I	0 *
BIOL237	Anatomy and Physiology II	0 *
BIOL240	Scientific Reasoning	3
BIOL250	Biology Research	1
BIOL252	Evolution: A Biological and Geological Approach	3
BIOL301	General Physiology	4
BIOL302	Plant Physiology	4
BIOL303	Microbiology	4
BIOL308	Plant Taxonomy	4
BIOL311	Pathophysiology	3
BIOL312	Endocrinology	3
BIOL335	Essential Concepts in Neuroscience	3
BIOL350	Biology Research	2
BIOL354	Professional Assistant	2
BIOL401	Developmental Biology	4
BIOL 403	Radiation Biology	4
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	Professorial Assistant	3
BIOL492	Independent Study in Biology	3
BIOL1492	Independent Study in Biology	2
BIOL2492	Independent Study in Biology	1

Free Elective Courses **29**

Notes:

* This will transfer in

** This will be satisfied from transferring in PHYS140+1140

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 requirements.

COURSE NUMBER	COURSE NAME	CREDITS
Required Chemistry Courses		
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 *
Required Math, Physics, and Computer Science Courses		
PHYS101	Basic Concepts of Physics	0 **
MATH175	Enhanced Precalculus	0 *
INTD180 OR	Computer Tools for Science and Math OR	3
MATH 140 OR	Statistics I OR	
PSYC 230	Statistics for Social Sciences	