



**Associate of Science
Biology
to
Bachelor of Arts
Biology**

**HCCC
AS - Biology**

COURSE NUMBER	COURSE NAME	CREDITS
CSS100	College Student Success	1
ENG101	College Composition I	3
ENG102	College Composition II	3
BIO115	Principles of Biology I	4
BIO116	Principles of Biology II	4
BIO111	Anatomy and Physiology I	4
BIO211	Anatomy and Physiology II	4
PSY101	Introduction to Psychology	3
SOC101	Introduction to Sociology	3
HUM101	Cultures and Values	3
CHP111	College Chemistry I	4
PHY113	Physics I	4
BIO230	Histology	4
BIO 270	Cell Biology	4
CHP211	College Chemistry II	4

Complete 1 Math Course:

MAT110	Precalculus	4
MAT111	Calculus I	4

Choose 1 course from the following:

BIO208	Ecology	4
BIO250	Microbiology	4
BTN201	Molecular Biology	4
BIO260	Molecular Biology	4
MAT111	Calculus I	4
MAT112	Calculus II	4

**NJCU
BA - Biology**

COURSE NUMBER	COURSE NAME	CREDITS
INTD101	Orientation to College	1
ENGL101	English Composition I	3
ENGL102	English Composition II	3
BIOL130	Principles of Biology I	4
BIOL131	Principles of Biology II	4
BIOL236	Anatomy and Physiology I	4
BIOL237	Anatomy and Physiology II	4
PSYC110	Introduction to Psychology	3
SOCI111	Principles of Sociology	3
WGST110	Diversity and Difference: Identities, Communities, and Cultures	4
CHEM 105+1105	General Chemistry I Lecture and Recitation/Lab	4
PHYS130+1131	College Physics I + Lab	4
BIOL305	Histology	4
BIOL230	Cell Biology	4
CHEM 106+1106	General Chemistry II Lecture and Recitation/Lab	4
MATH175	Enhanced Precalculus	4
MATH192	Calculus and Analytical Geometry I	4
BIOL402	Ecology	4
BIOL303	Microbiology	4
BIOL2XX	Biology Elective Credits	4
BIOL2XX	Biology Elective Credits	4
MATH192	Calculus and Analytical Geometry I	4
MATH193	Calculus and Analytic Geometry II	4

Total Credits 60

General Education Waived

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS
Required Courses		
		12 to 16
BIOL230	Cell Biology	4 *
BIOL304	Genetics	4
BIOL402 OR 332	Ecology or Field Ecology	4 *
BIOL440	Biology Seminar	1
Complete one of the following:		
INTD180	Computer Tools for Science and Math	3
or		
MATH 140	Statistics	1
or		
PSYC 230	Statistics for Social Sciences	3
BIO Electives (Select 15 credits from Biology courses numbered higher than BIOL 230.)		7
BIOL 231	Comparative Anatomy	4
BIOL232	Invertebrate Zoology	4
BIOL233	Principles of Botany	4
BIOL236 **	Anatomy and Physiology I	4 **
BIOL237 **	Anatomy and Physiology II	4 **
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	Professional Assistant	3
BIOL492	Independent Study in Biology	3
BIOL1492	Independent Study in Biology	2
BIOL2492	Independent Study in Biology	1
Free Elective Courses		37-41

Notes:

- * This course may be a part of the transfer if taken at HCCC
- ** This course will be a part of the transfer if taken at HCCC

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.