



# Associate of Science in Biology to Bachelor of Arts in Biology

## HCCC Biology A.S.

## NJCU Biology B.A.

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	=	SOC111	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/Lab	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/Lab	4

**Complete 1 Math Course:**

MAT110	Precalculus	4	=	MATH175	Enhanced Precalculus	4
MAT111	Calculus I	4	=	MATH192	Calculus and Analytical Geometry I	4
Take 4 credits below:						
BIO208	Ecology	4	=	BIOL402	Ecology	4
BIO250	Microbiology	4	=	BIOL303	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	Calculus and Analytic Geometry II	4

**Total Credits Transferred 60**

**General Education Waiver Awarded!**

# Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS
<b>Required Courses</b>		<b>12 to 16</b>
BIOL230	Cell Biology <i>Note: This course may be a part of the transfer if taken at HCCC</i>	4
BIOL304	Genetics	4
BIOL402 OR 332	Ecology or Field Ecology <i>Note: This course may be a part of the transfer if taken at HCCC</i>	4
BIOL440	Biology Seminar	1
INTD180 OR MATH 140 OR PSYC 230	Computer Tools for Science and Math OR Statistics I or Statistics for Social Sciences	3
<b>BIO Electives (Select 15 credits from Biology courses numbered higher than BIOL 230)</b>		<b>7</b>
BIOL 231	Comparative Anatomy	4
BIOL232	Invertebrate Zoology	4
BIOL233	Principles of Botany	4
BIOL236	Anatomy and Physiology I <i>Note: This course will be a part of the transfer from HCCC</i>	4
BIOL237	Anatomy and Physiology II <i>Note: This course will be a part of the transfer from HCCC</i>	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
<b>Free Elective Courses</b>		<b>37-41</b>
<b>Total Credits To Graduate</b>		<b>120</b>

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.