



**Associates of Science
Medical Science Pre-Nursing
to
Bachelor of Arts
Biology**

**HCCC
Medical Science Pre-Nursing - AS**

**NJCU
Biology - BA**

COURSE NUMBER	COURSE NAME	CREDITS		COURSE NUMBER	COURSE NAME	CREDITS
Complete The Following Courses for Gen Ed Requirements:						
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
ENG112	Speech	3	=	ENGL147	Effective Speaking	3
PSY101	Introduction to Psychology	3	=	PSYC110	Introduction to Psychology	3
Complete 1 Math Course Below:						
MAT100	College Algebra	3	=	MATH112	Intermediate Algebra	3
MAT114	Intro to Probab and Statistics	3	=	MATH140	Statistics I	3
CSC100	Intro to Comp and Computing	3	=	CS107	Computers & Information Systems	3
BIO111	Anatomy and Physiology I	4	=	BIOL236	Anatomy and Physiology I	4
PSY260	Lifespan Development	3	=	PSYC152	Development Adol to Adulthood	3
HUM101	Cultures and Values	3	=	WGST110	Diversity and Difference: Identities, Communities, and Cultures	3
1 Humanities or Social Science Elective	TBD	3	=	TBD		3
Complete the following Courses for Major Requirements:						
BIO211	Anatomy and Physiology II	4	=	BIOL237	Anatomy and Physiology II	4
BIO115	Principles of Biology I	4	=	BIOL130	Principles of Biology I	4
BIO116	Principles of Biology II	4	=	BIOL131	Principles of Biology II	4
HLT210	Medical Law and Ethics	3	=	HLTH2XX	Health Sciences Elective Credits	3
BIO250	Microbiology	4	=	BIOL303	Microbiology	4
Complete 3 of the following Courses:						
MDA106	Medical Terminology	3	=	HLTH1XX	Health Sciences Elective Credits	3
MDA224	Pharmacology	3	=	Not Transferable		
HLT112	Pathophysiology	3	=	BIOL311	Pathophysiology	3
HLT110	Culture, Diversity, and Health	3	=	HLTH1XX	Health Sciences Elective Credits	3
CHP100	Introduction to Chemistry	3	=	CHEM100	Preperation for General Chemistry	3

Total Credits 60

General Education Waived

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS	COURSE NUMBER	COURSE NAME	CREDITS
Required Core Courses:			Electives Biology Courses:		
32-40			3		
BIOL230	Cell Biology	4	BIOL 231	Comparative Anatomy	4
BIOL304	Genetics	4	BIOL232	Invertebrate Zoology	4
BIOL402 OR 332	Ecology or Field Ecology	4	BIOL233	Principles of Botany	4
BIOL440	Biology Seminar	1	BIOL236 ***	Anatomy and Physiology I	0 ***
PHYS101 *	Basic Concepts of Physics	0 *	BIOL237 ***	Anatomy and Physiology II	0 ***
CHEM105 **	General Chemistry I Lecture	0-4 **	BIOL240	Scientific Reasoning	3
CHEM1105 **	Recitation/Labratory		BIOL250	Biology Research	1
CHEM106 **	General Chemistry II Lecture	0-4 **	BIOL252	Evolution: A Bio and Geological Approach	3
CHEM1106 **	Recitation/Labratory		BIOL301	General Physiology	4
			BIOL302	Plant Physiology	4
Complete one of the following:			BIOL303 ***	Microbiology	0 ***
INTD180	Computer Tools for Science and Math	3	BIOL308	Plant Taxonomy	4
	OR		BIOL311	Pathophysiology	3
MATH 140	Statistics I	0-4	BIOL312	Endocrinology	3
	OR		BIOL335	Essential Concepts in Neuroscience	3
PSYC 230	Statistics for Social Sciences	0-4	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

33-41

Notes:

* (Note: PHYS130 will satisfy this)

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

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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.