

Associates of Science Medical Science Pre-Nursing Option to Bachelor of Science Biology

HCCC NJCU
Medical Science Pre-Nursing Option - AS Biology - BS

COURSE NUMBER	COURSE NAME	CREDITS		COURSE NUMBER	COURSE NAME	CREDITS
Complete the following	Courses for Gen Ed Reg's:					
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 Cours	e Below:					
MAT100	College Algebra	3	=	MATH112	Intermediate Algebra	3
MAT114	Intro to Probability 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	TBD	3	=	TBD		3
Social Science Elective						
Complete the following	Courses for Major Reg's:					
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 Follow	wing 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

Notes:

* Recommended

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Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS	COURSE NUMBER	COURSE NAME	CI
Required Core Courses:		39-42	Electives Biology Courses:		0-
BIOL304	Genetics	4	BIOL 231 BIOL232	Comparative Anatomy	4
BIOI 402 OR 332	Ecology or Field Ecology	4	BIOL232 BIOL233	Invertebrate Zoology Principles of Botany	4
BIOL440	Biology Seminar	1	BIOL236 *	Anatomy and Physiology I	0
CHEM105	General Chemistry I Lecture	3	BIOL237 *	Anatomy and Physiology II	0
CHEM1105	General Chemistry I Recitation/Lab	2	BIOL240	Scientific Reasoning	3
CHEM1103 CHEM106	•	3	BIOL250	Biology Research	1
	General Chemistry II Lecture		BIOL252	Evolution: A Biol and Geolog Approach	3
CHEM1106	General Chemistry II Recitation/Lab	2	BIOL301	General Physiology	4
CHEM207	Organic Chemistry I	3	BIOL302	Plant Physiology	4
CHEM2207	Organic Chemistry I Lab	1	BIOL303 *	Microbiology	0
CHEM208	Organic Chemistry II	3	BIOL308	Plant Taxonomy	4
CHEM2208	Organic Chemistry II Lab	1	BIOL311 **	Pathophysiology	0-
MATH192	Calculus and Analytical Geometry I	4	BIOL312 BIOL335	Endocrinology Essential Concepts in Neuroscience	3
			BIOL350	Biology Research	2
Complete one of the following Courses with Lab:			BIOL354	Professional Assistant	2
PHYS130	Physics I	3	BIOL401	Developmental Biology	4
PHYS1130	Physics I Recitation and Labratory	1	BIOL 403	Radiation Biology	4
OR	, ,		BIOL404 BIOL406	Immunology Molecular Genetics	3
PHYS131	Physics II	3	BIOL 407	Advanced Cell Biology	4
PHYS1131	Physics II Labratory and Recitation	1	BIOL409	Biological Chemistry	3
OR	Filysics II Labratory and Recitation	1	BIOL410	Electron Microscopy	4
	D I CDI . I		BIOL418	Scanning Electron Microscopy	4
PHYS140	Principles of Physics I	3	BIOL419	Transmission Electron Microscopy	4
PHYS1140	Principles of Physics I Lab and Recitation	1	BIOL450 BIOL454	Biology Research Professiorial Assistant	3
OR			BIOL454 BIOL492	Independent Study in Biology	3
PHYS 141	Physics II	3	BIOL1492	Independent Study in Biology Independent Study in Biology	2
PHYS1141	Physics II Recitation and Labratory	1	BIOL2492	Independent Study in Biology	1
Complete one of the	following:	0-3 *			
INTD180	Computer Tools for Science and Math				
MATH 140	Statistics I				
PSYC 230	Statistics for Social Sciences				

Free Elective Courses 12-21

Notes:

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.

^{*} This course will be a part of the transfer from HCCC

^{**} This course <u>may</u> be a part of the transfer from HCCC