

Associates of Science Medical Sciences Pre-Professional to Bachelor of Science Biology

HCCC Medical Sciences Pre-Professional - AS

NJCU Biology - BS

Medical Science	es Pie-Piolessional - AS	Diology - DS				
COURSE NUMBER	URSE NUMBER COURSE NAME		EDITS	COURSE NUMBER	COURSE NAME	CRED
Complete the followin	g 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
MAT 110	Precalculus	4	=	MATH175	Precalculus	4
CSC100	Intro to Computers and Computing	3	=	CS107	Computers & Information Systems	3
BIO111	Anatomy and Physiology I	4	=	BIOL236	Anatomy and Physiology I	4
PSY101	Introduction to Psychology	3	=	PSYC110	Introduction to Psychology	3
1 Humanities Elective	TBD	3	=	TBD		3
1 Diversity Elective	TBD	3	=	TBD		3
1 Humanities or						
Social Science Elective	TBD	3	=	TBD		3
•	ng Courses for Major Requirements:			DIOL 227		
BIO211	Anatomy and Physiology II	4	=	BIOL237	Anatomy and Physiology II	4
BIO115	Principles of Biology I	4	=	BIOL130	Principles of Biology I	4
HLT210	Medical Law and Ethics	3	=	HLTH2XX	Health Sciences Elective Credits	3
BIO116	Principles of Biology II	4	=	BIOL131	Principles of Biology II	4
Complete 1 of the Foll	-			DIOL 444		
BIO250	Microbiology	4	=	BIOL303	Microbiology	4
PHY113	Physics I	4	=	PHYS130+1131	College Physics I + Lab	4
Complete 1 Group of C	Courses for Electives:					
* Pre-Medicine/Phar	macy *					
CHP111	College Chemistry I	4	=	CHEM105	General Chemistry I Lecture	4
				CHEM1105	Recitation/Labratory	
CHP211	College Chemistry II	4	=	CHEM 106 CHEM1106	General Chemistry II Lecture Recitation/Labratory	4
	or					
	7/Pre-Athletic Trainer			550005		
EXS101	Intro to Exercise Science	2	=	FES207	Introduction to Exercise Science	2
HLT111	Introduction to Healthcare	2	=	HLTH1XX	Health Sciences Elective Credits	2
EXS203	Exercise Measurement and Prescript	4	=	FES325	Exercise Testing and Prescription	4
De Helde	or					
Pre-Health Sciences MDA106	Medical Terminology	3	=	HLTH1XX	Health Sciences Elective Credits	3
HLT112	Pathophysiology	3	=	BIOL311	Pathophysiology	3
HLT111	Introduction to Healthcare	2	=	HLTH1XX	Health Sciences Elective Credits	2
	introduction to require	-			The and belences Electrice Stealts	

<u>Note</u>:

* Recommended

Total Credits

60

General Education Waived

Remaining NJCU Courses

COURSE NUMB	BER	COURSE NAME	CREDITS	COURSE NUMBER	COURSE NAME	CREDITS
Required Core Courses:		32-40	Electives Biology Courses:		3	
BIOL230		Cell Biology	4	BIOL 231 BIOL 232	Comparative Anatomy Invertebrate Zoology	4 4
BIOL304		Genetics	4	BIOL232 BIOL233	Principles of Botany	4
BIOL402 OR 332	2	Ecology or Field Ecology	4	BIOL236 **	Anatomy and Physiology I	0 **
BIOL440		Biology Seminar	1	BIOL237 **	Anatomy and Physiology II	0 **
CHEM207		Organic Chemistry I	3	BIOL240	Scientific Reasoning	3
CHEM2207		Organic Chemistry I Lab	1	BIOL250	Biology Research	1
CHEM208		Organic Chemistry II	3	BIOL252	Evolution: A Bio and Geological Approach	3
CHEM2208		Organic Chemistry II Lab	1	BIOL301 BIOL302	General Physiology Plant Physiology	4 4
MATH192		Calculus and Analytical Geometry I	4	BIOL303 **	Microbiology	4 0 **
CHEM105 *		, ,	4 0-4 *	BIOL308	Plant Taxonomy	4
		General Chemistry I Lecture	0-4 *	BIOL311	Pathophysiology	3
CHEM1105 *		Recitation/Labratory		BIOL312	Endocrinology	3
CHEM106 *		General Chemistry II Lecture	0-4 *	BIOL335	Essential Concepts in Neuroscience	3
CHEM1106 *	Recitation/Labratory		BIOL350	Biology Research	2	
				BIOL354 BIOL401	Professional Assistant Developmental Biology	2 4
Complete one o	of the	following:		BIOL 403	Radiation Biology	4
INTD180		Computer Tools for Science and Math	3	BIOL403 BIOL404	Immunology	3
	OR			BIOL406	Molecular Genetics	4
MATH 140		Statistics I	0-4	BIOL 407	Advanced Cell Biology	4
	OR			BIOL409	Biological Chemistry	3
PSYC 230	Statistics for Social Sciences	0-4	BIOL410 BIOL418	Electron Microscopy Scanning Electron Microscopy	4 4	
			0 1	BIOL418 BIOL419	Transmission Electron Microscopy	4
Complete one	oftha	following Courses with Lab:		BIOL419 BIOL450	Biology Research	3
PHYS131	orthe	Physics II	2	BIOL454	Professiorial Assistant	3
		,	3	BIOL492	Independent Study in Biology	3
PHYS1131		Physics II Labratory and Recitation	1	BIOL1492	Independent Study in Biology	2
	OR			BIOL2492	Independent Study in Biology	1
PHYS 141		Physics II	3			
PHYS1141		Physics II Recitation and Labratory	1			

Free Elective Courses

17-25

Notes:

* This course <u>may</u> 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.