

## Associates of Science Medical Sciences Pre-Professional to Bachelor of Arts Chemistry

HCCC NJCU

Medical Sciences Pre-Professional - AS Chemistry - BA

COURSE NUMBER	COURSE NAME	CREDITS		COURSE NUMBER	COURSE NAME	CREDITS
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	introduction to Toyonorogy	3
1 Diversity Elective	TBD	3	=	TBD		3
1 Humanities or						
Social Science Elective	TBD	3	=	TBD		3
•	g 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
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 folio	_					
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/Pharr	nacy *					
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			CHEWHIOO	Recitation/ Labratory	
Pre-Physical Therapy	/Pre-Athletic Trainer					
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
	or					
Pre-Health Sciences	M. H. al Tamain alama	2		III TIII VV	Harlin Calana Flating Co. 19	2
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

## Note:

\* Recommended

Total Credits 60

General Education Waived

## **Remaining NJCU Courses**

COURSE NUMBER	COURSE NAME	CREDITS	COURSE NUMBER	COURSE NAME	CREDITS
Required Core Courses:		45-52	Select a Minimum of 3 credits in CHEM electives:		3+
CHEM105 *	General Chemistry I Lecture	0-4 *	CHEM 220	Environmental Chemistry	4
CHEM1105 *	Recitation/Labratory		CHEM 306 ***	Physical Chemistry II, Lecture	3 ***
CHEM106 *	General Chemistry II Lecture	0-4 *	CHEM 308	Biochemistry II	4
CHEM1106 *	Recitation/Labratory		CHEM 3306 *** CHEM 430 CHEM 401 CHEM 412 CHEM 414 CHEM 420 CHEM 425	Physical Chemistry II Recitation/Laboratory Spectroscopic Identif. of Organic Comp's Medicinal Chemistry Inorganic Chemistry Laboratory Advanced Organic Chemistry Food Chemistry Nanomaterial and Microelectronic Fab.	
CHEM 207	Organic Chemistry I	3			3
CHEM 2207	Organic Chemistry I Laboratory	1			2
CHEM 208	Organic Chemistry II	3			3
CHEM 2208	Organic Chemistry II Laboratory	1			4
CHEM 205 **	Analytical Chemistry Lec	3 **			3
CHEM 2205 **	Analytical Chemistry Laboratory	2 **	CHEM 435 *	Materials Chemistry	3 *
CHEM 307	Biochemistry I	4			
CHEM 316 ***	Instrumental Analysis, Lecture	3 ***			
CHEM 3316 ***	Instrumental Methods of Analysis, Lab	2 ***			
CHEM 305 **	Physical Chemistry I	3 **			
CHEM 405 **	Seminar	1 **			
CHEM 416 ***	Inorganic Chemistry	3 ***			
INTD180	Computer Tools for Science and Math	3			
MATH 192	Calculus and Analytic Geometry I	4			
MATH 193	Calculus and Analytic Geometry II	4			
PHYS131 ***	Physics II	3 ***			
PHYS1131 ***	Physics II Labratory and Recitation	1 ***			
OR	•				
PHYS 141	Physics II	3			
PHYS1141	Physics II Recitation and Labratory	1			

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Free Elective Courses

## Notes:

<sup>\*</sup> This course <u>may</u> be a part of the transfer if taken at HCCC

<sup>\* \*</sup> Fall Only

<sup>\*\*\*</sup> Spring Only