

Associate of Science in Chemistry to Bachelor of Science in Chemistry

HCCC Chemistry A.S.

NJCU Chemistry B.S.

Course Number	Course Name	Credits	i	Course Number	Course Name	Credit
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
BIO100	General Biology	3	=	BIOL100	General Biology	4
MAT111	Calculus I	4		MATH192	Calculus and Analytic Geometry I	4
MAT112	Calculus II	4	=	MATH193	Calculus and Analytic Geometry II	4
CSC100	Intro to Computers and Computing	3		CS107	Computer and Information Systems	3
ENG112	Speech	3		ENGL147	Effective Speaking	3
	1 Social Science Elective 3 = TBD			•	3	
	1 Social Science or Humanities Elective	3		TBD		3
	1 Humanities Elective	3	=	TBD		3
CHP111	College Chemistry I	4	=	CHEM 105 + 1105	General Chemistry I Lecture and Recitation/Labratory	5
CHP211	College Chemistry II	4	=	CHEM 106 + 1106	General Chemistry II Lecture and Recitation/Labratory 5	
CHP225	Organic Chemistry I	4	=	CHEM 207 + 2207	Organic Chemistry I Lecture and Lab	4
CHP230	Organic Chemistry II	4	=	CHEM 208 + 2208	Organic Chemistry II Lecture and Lab	
PHY111	Engineering Physics I	4	=	PHYS140 + 1140	Principles of Physics I Lecture, Lab and Recitation	
PHYS211	Engineering Physics II	4	=	PHYS141 + 1141	Principles of Physics II Lecture, Lab and Recitation	4
Complete 1 Approve	ed Science Elective:					
MAT114	Introduction to Probabiltiies and Statistics	3	=	MATH140	Statistics I	3
CSC115	Programming in C++ for CS	3	=	CS102	Computer Science II	3
CSC118	Python Programming	3	=	CS252	Programming for All in Python and	
					Computer Science Principles	3
CSC117	Java Programming	3	=	CS101	Computer Science I	3
	Total Credits Transferred	60			General Education Waiver Awarded!	

Remaining NJCU Courses

COURSE NUMBER	COURSE NAME	CREDITS		
REQUIRED COURSES 29				
CHEM205	Analytical Chemistry Lecture	3	Fall Only	
CHEM2205	Analytical Chemistry Lab	2	Fall Only	
CHEM316	Instrumental Analysis I	3	Spring Only	
CHEM3316	Instrumental Methods of Analysis, Laboratory	2		
CHEM305	Physical Chemistry I Lecture	3	Fall Only	
CHEM306	Physical Chemistry II Lecture	3	Spring Only	
CHEM 3306	Physical Chemistry II Lab and Recitation	2	Spring Only	
CHEM307	Biochemistry I	4		
CHEM405	Seminar	1	Fall Only	
CHEM416	Inorganic Chemistry	3	Spring Only	
INTD180	Computer Tools for Science and Math	3		
Select a Minimum of 2 additional CHEM electives:		6-8cr		
CHEM 220	Environmental Chemistry	4		
CHEM308	Biochemistry II	4		
CHEM430	Spectroscopic Identification of Organic Compounds	3		
CHEM401	Medicinal Chemistry	3		
CHEM420	Food Chemistry	4		
CHEM412	Inorganic Chemistry Laboratory	2		
CHEM414	Advanced Organic Chemistry	3		
CHEM425	Nanomaterial and Microelectronic Fabrication	3		
CHEM425	Materials Chemistry	3		
Free Elective Courses		23-25		
Total Credits To Graduate		120		