



Associate of Science in Chemistry to Bachelor of Arts in Chemistry

HCCC Chemistry A.S.

NJCU Chemistry B.A.

Course Number	Course Name	Credits		Course Number	Course Name	Credits
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/Lab	5
CHP211	College Chemistry II	4	=	CHEM 106 + 1106	General Chemistry II Lecture and Recitation/Lab	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	4
PHY111	Engineering Physics I	4	=	PHYS140 + 1140	Principles of Physics I Lecture, Lab and Recitation	4
PHYS211	Engineering Physics II	4	=	PHYS141 + 1141	Principles of Physics II Lecture, Lab and Recitation	4

Complete 1 Approved Science Elective:

MAT114	Introduction to Probabilities 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	AVAILABILITY
Required Courses		24	
CHEM205	Analytical Chemistry Lecture	3	Fall Only
CHEM2205	Analytical Chemistry Lab	2	Fall Only
CHEM307	Biochemistry I	4	
CHEM316	Instrumental Analysis I	3	Spring Only
CHEM3316	Instrumental Methods of Analysis I Lab	2	Spring Only
CHEM305	Physical Chemistry I	3	Fall Only
CHEM405	Seminar	1	Fall Only
CHEM416	Inorganic Chemistry	3	Spring Only
INTD180	Computer Tools for Science and Math	3	
Select a Minimum of 3 credits:		3	
CHEM220	Environmental Chemistry	4	
CHEM306	Physical Chemistry II Lecture	3	Spring Only
CHEM3306	Physical Chemistry II Lab and Recitation	2	Spring Only
CHEM308	Biochemistry II	4	
CHEM430	Spectroscopic Identification of Organic Compounds	3	
CHEM401	Medicinal Chemistry	3	
CHEM420	Food Chemistry	4	
CHEM412	Inorganic Chemistry Lab	2	
CHEM414	Advanced Organic Chemistry	3	
CHEM425	Nanomaterial and Microelectronic Fabrication	3	
CHEM435	Materials Chemistry	3	
Free Elective Courses		33	
Total Credits To Graduate		120	