

CHEMISTRY- Nuclear Science Track Bachelor of Science with a Major in Chemistry

The nuclear science track provides a flexible program that may be used as preparation to enter the nuclear or chemical workforce or for graduate studies in chemistry or health physics. (Grade of C or better is required in all major courses and upper level major electives)

Core Curriculum Areas A-E for Science Majors	42	
Core Curriculum Area F	18	
CHEM 1211, 1212 Principles of Chemistry I, II	8	
CHEM 2810 Quantitative Analysis	5	
PHYS 1111, 1112 Introductory Physics I, II or PHYS 2211,2212 Principles of Physics I,II*	5	
Lower level requirements	0-11	
MATH 2011 Calculus I (if not in D)	0-4	
PHYS 1112 Introductory Physics II or PHYS 2212 Principles of Physics II (if not in D)	0-3	
MATH 2210 Elementary Statistics (if not in D)	0-3	
New majors are encouraged to complete CHEM 1000 Chemistry Orientation		
Major Concentration	30	
CHEM 3000 Introduction to Nuclear Sciences	3	
CHEM 3010 Introduction to Nuclear Measurements	3	
CHEM 3020 Applications of Nuclear Sciences	3	
CHEM 3411, 3412 Organic Chemistry I, II	8	
CHEM 3721 Physical Chemistry I	3	
CHEM 3820 Lab Management and Safety	2	
CHEM 4700 Integrated Lab	3	
CHEM 4800 Advanced Seminar	1	
CHEM 4840 Instrumental Analysis	4	
Major Electives	15-17	
With the assistance of advisor, choose a minimum of 15 credit hours from:		
CHEM 3722 Physical Chem. II*	4	CHEM 4990 Undergrad Res to total 3 hr 3
CHEM 3810 Adv Organic Chem.	3	MATH 2012 Calc. & Analytic Geom. II* 4
CHEM 4210 Adv Inorganic Chem*	3	MATH 3020 Differential Equations* 3
CHEM 4551 Biochemistry I*	3	MATH 4251 Probability and Statistics I 3
CHEM 4552 Biochemistry II	3	PHYS 3300 Modern Physics 3
CHEM 4950 Selected Topics	3-4	
Free Electives	3-15	
Physical Education	4	
Total Hours for the Degree		124

Completion of ACS Diagnostic of Undergrad Chem. Knowledge Exam with a minimum score of 25 correct.

*Courses marked with an asterisk are recommended for students who intend to pursue graduate studies in the nuclear sciences.