



Northwest Missouri State University
 Department of Natural Sciences
 A Partner of the School of Health Science and Wellness
 Chemistry, ACS Certified
 Comprehensive Major - No Minor Required
 Bachelor of Science

First Year					
First Term			Second Term		
17-117	Precalculus**	4	17-120	Calculus I	4
04-106/107	Principles of Biology & Lab	4	10-112	Composition II: Writing as Engagement	3
77-101	University Seminar	1		Civics - History	3
10-111	Composition I: Academic Literacies	3	24-116/117	General Chemistry II & Lab	5
24-114/115	General Chemistry I & Lab*	4			
Total Hours		16	Total Hours		15
First Year – Summer Term					
24-135	Laboratory Safety	2			
Total Hours		2			
Second Year					
First Term			Second Term		
24-342/343	Organic Chemistry I & Lab	4	24-344/345	Organic Chemistry II & Lab	4
17-121	Calculus II	4	25-230/231	Fund of Classical Physics II & Lab	5
25-120/121	Fund of Classical Physics I & Lab	5	17-114	General Statistics	3
29-102	Fundamentals of Oral Communication	3		Elective	3
Total Hours		16	Total Hours		15
Third Year					
First Term			Second Term		
	Social and Behavioral Sciences (1 of 2)	3		Humanities (2 of 2)	3
24-532/523	Physical Chemistry I & Lab	4	25-534/535	Physical Chemistry II & Lab	4
	Fine Arts	3	24-522/523	Instrumental Analysis & Lab	4
24-322/323	Analytical Chemistry & Lab	4		Chemistry Elective (400+ Level)	3
Total Hours		14	Total Hours		14
Fourth Year					
First Term			Second Term		
34-102	Introduction to Am. Gov't & Politics	3	10-220	Intro to Literature	3
24-562	General Biochemistry	3		Humanities (1 of 2)	3
24-592	Chemistry Seminar	1		Social and Behavioral Sciences (2 of 2)	3
	Digital Literacy	3	24-552	Adv. Inorganic Chemistry	3
17-311	Elem Linear Algebra OR	3-4	24-555	Inorganic Synthesis Laboratory	1
17-321	Multivariate Calc OR				
17-361	Differential Equation				
				Elective	3
Total Hours		13-14	Total Hours		16

*Enrolling in Chemistry 112/113 should be considered prior to Chemistry 114/115 if a rigorous high school Chemistry background is absent. Similar considerations are warranted proficiency in high school Algebra II.

**Students with a 27 or higher mathematics ACT sub score are eligible to begin with Calculus I. Students with mathematics ACT sub scores between 22 and 26 with a high-school GPA of 3.9 or higher are eligible to begin with Calculus I. Students not meeting these criteria must first complete either 17-117 or 17-118 and 17-119.

*** The plan above may not equate to 120 total hours of coursework and will need to be supplemented with additional hours.