

ADVISING GUIDE

Bachelor of Science: Chemistry Education (grades 9-12)

Course	Title		Credits	Sem.
	LEP/MNTC Courses Required for Adm	ission to Teacher Preparation Program		
COMM XXX	Any Goal 1 COMM with COMM Prefix	(Minimum grade of C or better for admission to TPP)	3	В
ENG 151 or 251	Academic Writing or Writing in Professions	(Minimum grade of C or better for admission to TPP)	4	В
MATH XXX	Any Goal 4 MATH with MATH Prefix	(Minimum grade of C or better for admission to TPP)	3-5	В
	Secondary Standa	ords of Effective Practice Core		
ED 101	Introduction to Education & Lab		3	В
ED 102	Tech: Classroom Applications & Portfolio		2	B, Su
PSYC 341	Child & Adolescent Psychology	*Pre-Requisite: PSYC 101	3	В
ED 312	Human Relations for Teachers		3	В
SPED 290	Introduction to Special Needs & Lab	*Pre-Requisite: ED 101 & Sophomore Status	3	В
ED 301	The Teaching & Learning Process & Lab	*Pre-Requisite: ED 301	3	F
ED 304	Professional Development & Classroom Applications		1	S
ED 304L	Pre-Student Teaching Experience Practicum		0	S
	Not Required, I	but Strongly Encouraged		
HLTH 225	Alcohol, Narcotics, & Tobacco		2	S
	Require	d Content Classes		
ED 407	Secondary Methods: Science		3	se
ED 430	Reading in the Content Areas		2	S
CHEM 231 & 231L	General Chemistry I & Lab		4	F
CHEM 232 & 232L	General Chemistry II & Lab	*Pre-Requisites: CHEM 231	5	S
CHEM 243	Analytical Chemistry I	*Pre-Requisites: CHEM 232	5	se
CHEM 351 & 351L	Organic Chemistry I & Lab	*Pre-Requisites: CHEM 232	5	F
CHEM 352 & 352L	Organic Chemistry II & Lab	*Pre-Requisites: CHEM 351	5	S
CHEM 364	Chemical Thermodynamics & Kinetics	·	3	se
CHEM 420	Chemistry Seminar *Pre-Requisites: CHEM 363 or CHEM 364 or CHEM 365		1-2	S
MATH 150	Calculus I		5	В
	College Physics I & Lab		4	F
PHYS 141 and PHYS 142	and College Physics II & Lab	*Pre-Requisites: PHYS 141	4	S
OR	OR			
PHYS 181 and PHYS 182	University Physics I & Lab	**	5	F
	and University Physics II & Lab	*Pre-Requisites: PHYS 182	5	S
ED 465	Student Teaching Consider Student Teaching Conde 5 12			
ED 465	Secondary Student Teaching: Grade 5-12		12	В
ED 473	Teacher Licensure	AA-I B I	0	В
	Ţ.	Major Requirements	4-	
	LEP/MnTC requirements		45	
	Chemistry Education major		35-38	
	Education courses		29	
	Total credits required for this degree		109-112	
	Total credits required for graduation	or to admission to the Teacher Preparation Program	120	

Courses in the shaded area can be taken prior to admission to the Teacher Preparation Program

Courses not in the shaded areas require admission to the Teacher Preparation Program

 $F = Fall \qquad S = Spring \qquad B = Both \ F \& S \qquad Su = Summer \qquad fo = fall \ odd \qquad so = spring \ odd \qquad fe = fall \ even \qquad se = spring \ even \qquad For example- fo = fall \ 2021; \ se = spring \ 2022; \ fe = fall \ 2022; \ so = spring \ 2023$

You are responsible for keeping informed of any changes in requirements which may affect your academic career.