

UMKC - School of Education Advising Guidelines									
BA SECONDARY EDUCATION - Natural Sciences/Biology (unified)									
GENERAL EDUCATION			SUBJECT AREA REQUIREMENTS				PROFESSIONAL EDUCATION		
Majority of coursework in the left and middle columns must be finished before applying to School of Education and beginning professional education sequence. General education courses with (*) symbol also meet subject area requirements.							Online application packet required for admission to professional semesters. Admission requirements for the professional semesters can be found on the reverse side. Students can have up to 9 credit hours remaining before entering the professional program. February 1 deadline for Summer admission.		
<i>English/Humanities</i>			<i>Biology Requirements</i>				<i>Summer Semester</i>		
ENG 110	English Composition I	3	Students must complete a minimum of 28 hours of Biology requirements which are contained in this box.				EDUC 428	Cultural Diversity in American Education	3
ENG 225	English Composition II	3					*BIO 108/108L	General Biology I with lab	3/1
COMS 110	Speech/Communication	3	BIO 109/109L	General Biology II with lab	3/1	TCH-ED 422	Practicum I	0	
ENG ____	Literature	3	LS MCRB 112	Microbiology and Man	3	<i>Fall Semester</i>			
FINE ARTS	Art 110, Consvty 120, Theatre 130	3	LS PHYS 117	Human Physiology	3				
<i>Social Sciences</i>			LS ANAT 118/118L	Human Anatomy with lab	3/2	TCH-ED 423	Practicum II	0	
HIST 101 or 102	American History I or II	3	BIO 202	Cell Biology	3	TCH-ED 427	Reading in the Secondary School	3	
POLS 210	American Government	3	BIO 206	Genetics	3	TCH-ED 435	Special Methods Science	3	
SOCIAL SCIENCE	Select from Econ, Geog PolS, Psych, Soc	3	BIO 302	General Ecology (SP)	3	*TCH-ED 470	Philosophy & History of Science & Tech.	3	
			BIO 303 or 308	Zoology (303=even fall, 308=odd fall)	3	TCH-ED 438	Culturally Responsive Strategies	3	
			BIO 346 or 427	Botany (346=even fall, 427=odd spring)	3	<i>Spring Semester</i>			
			BIO 405	Introduction to Evolution	3				
<i>Natural Sciences/Math</i>							TCH-ED 437	Student Teaching - Secondary	10
*BIO 108/108L	General Biology I with lab	3/1					TCH-ED 495	Special Methods II (Capstone)	2
*VARIOUS	Chem/Earth/Physical Science with lab	4-5							
MATH 210 or STAT 235	Calculus or Statistics	3-4							
<i>Pre-Education Coursework</i>			<i>Required Supporting Courses</i>				<i>Non-Course Requirements</i>		
EDUC 180	Introduction to Education	2	*TCH-ED 470	Philosophy & History of Science & Tech (F)	3	Math Placement Exam	_____		
TCH-ED 403	Educational Psychology	3	CHEM 211/211L	General Chemistry I with lab	4/1	Written English Proficiency Test (WEPT)	_____		
TCH-ED 385	Teaching & Learning with Technology	3	CHEM 212/212L	General Chemistry II with lab	4/1	College Basic Academic Subjects Exam (CBASE)	_____		
TCH-ED 404	Education of the Exceptional Child	3	PHYS 210	General Physics I with lab	4	Praxis II: Biology: Content Knowledge #0235	_____		
TCH-ED 420	Adolescent Development	3	PHYS 220	General Physics II with lab	4	Admission to professional education program	_____		
			GEOL 220	General Geology	3	Admission to internship year	_____		
			GEOG 319	Descriptive & Synoptic Meteorology	4	Program Portfolio - Teacher Work Sample	_____		
			ENVS 110R/110L	Understanding the Earth with lab	3/2				
Academic Advisor: Brad Martens							Faculty Advisor: Dr. Louis Odom		