CURRICULUM GUIDE

Biology, B.S. (Teaching Concentration)

2023-2024

Website: www.biology.eku.edu Email Contact: biology@eku.edu **Department of Biological Sciences** 521 Lancaster Ave. 3238 Science Building Richmond, KY 40475 859-622-1531

The schedule below is an **EXAMPLE** of how you can arrange your class schedule.

	Fall Semester		Spring Semester		Course	Course Name	
					Number		
Freshman	SCO 100B	1	EDF 203	3	GENERAL EDUCATI	ION & UNIVERSITY REQUIREMENTS (37)	
Year	BIO 111	4	CED 100	0			
ı Cai	^G CHE 111 (fulfills Gen. Ed. 4)	3	^G SED 104 (fulfills Gen. Ed. 6)	3	SCO 100B	Student Success Seminar for Biology (1)	
	CHE 111L	1	BIO 112	4	CORE COURSE REC	QUIREMENTS (29)	
	♀ ^G † MAT Requirement		CHE 112	3	BIO 111	Cell and Molecular Biology (4)	
	(fulfulls Gen. Ed. 2)	3-5	CHE 112L	1	BIO 112	Ecology and Evolution (4)	
	Gen. Ed. 1A (<i>ENG 101</i>)	3	۞ Gen. Ed. 1B (<i>ENG 102</i>)	3	BIO 315	Genetics (4)	
		-	(2001)	_	BIO 316 BIO 318	Ecology (4) Botany (4)	
					BIO 319	Zoology (4)	
	TOTAL	15-17	TOTAL	17	BIO 320	Principles of Microbiology (4)	
	TOTAL	13-17	IOIAL	1/	BIO 495	Evolution Theory and Application (1)	
Sophomore	BIO 319	4	EDF 219	3	BIOLOGY TEACHING CONCENTRATION REQUIREMENTS (6) SIX (6) HOURS selected from the following:		
•	CHE 361	3	CED 200	0	SIX (6) HOURS selecte	ed from the following: Cell Biology (3)	
Year	CHE 361L	1	BIO 318	4	BIO 348	Animal Physiology (3)	
	Gen. Ed. 1C (Oral Comm.)	3	BIO 331, 348, 500, or 532	3	BIO 500	Environmental Issues (3)	
	,	3	Gen. Ed. 3A (<i>Arts</i>)	3	BIO 532	Conservation Biology (3)	
	Gen. Ed. 3B (Humanities) (PHI				SUPPORTING COU	RSE REQUIREMENTS (9-13)	
	110, 130, 300, or 320	11	Gen. Ed. 5A (History)	3	[GCHE 111	General Chemistry I (3)	
	recommended)	3			1 _{CHE 111L}	General Chemistry Lab I (1)	
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3			* CHE 112	General Chemistry II (3)	
	❖ 30 hrs complete + apply to	1			L* CHE 112L [* CHE 361	General Chemistry Lab II (1) Organic Chemistry I (3)	
	professional education program	//	\sim		* CHE 361L	Organic Chemistry Lab I (1)	
	TOTAL	17	TOTAL	16	^G PHY 101 <u>or</u>	Concepts of the Physical World (3)	
	IOIAL		TOTAL	10	^G PHY 131 <u>or</u>	College Physics I (5)	
Junior	EDC 300	3	EDF 413	3	^G GLY 109	Great Moments in Earth History (3)	
	EDF 204	2	EMS 490	3	† PLUS ONE (1) MATHEMATICS COURSE SELECTED FROM (any of which can count towards General Education, Element 2):		
Year	CED 300	0.5	CED 400	0.5	^G * MAT 120	Trigonometry (3)	
	EMS 300	3	BIO 320	4	^G * MAT 122	Precalculus Mathematics (5)	
					^G * MAT 211	Applied Calculus (3)	
	BIO 331, 348, 500, <u>or</u> 532	3	BIO 315	4	^G * MAT 234	Calculus I (4)	
	⁶ PHY 101, PHY131 <u>or</u> GLY 109					UCATION REQUIREMENTS (37)	
	(fulfills Gen. Ed. 4)	3-5			EDC 300 EDF 203	Differentiation Inclusive Classrooms (3) Philosophical & Historical Found. of Ed. (3)	
					EDF 204	Emerging Instructional Technologies (2)	
	TOTAL	14.5-	TOTAL	14.5	EDF 219	Human Development and Learning (3)	
		16.5			EDF 413	Assessment in Education (3)	
Senior	ESE 561	3	CED 499	9	EMS 300 EMS 474	Curriculum & Instructional Design (3) Teaching Content Reading (3)	
	CED 450 (fall only)	1	EMS 474	3	EMS 490	Classroom & Behavior Management in P-12 (3)	
Year	BIO 316	4			ESE 561	Teaching Science in the Secondary Schools (3)	
	BIO 495	1			^G SED 104	Introduction to Special Education (3)	
	Gen. Ed. 6 (<i>Diversity</i>)	3			DILIC ELEVEN (11) HO	URS of Clinical Experiences to include:	
	Free Elective	0-2				· · · · · · · · · · · · · · · · · · ·	
	Tree Liective	0-2			CED 100 CED 200	Clinical I: Intro to the Education Prof. (0) Clinical II: Understanding the Learner (0)	
	ADDLY FOR CTURENT TEACHING				CED 200 CED 300	Clinical III: curriculum and Instruct. Des. (0.5)	
	APPLY FOR STUDENT TEACHING				CED 400	Clinical IV: Diagnosis & Perception (0.5)	
					CED 450	Clinical V: Practicing Teaching (1) (fall only)	
	TOTAL	12-14	TOTAL	12	CED 499 FREE ELECTIVES (0-2)	Supervised Student Teaching P-12 (9)	
		TAL 11011	DE TO DECREE COMMITTION	120 422		lit hours from this course are/can be applied to	
	TO	I AL HOU	RS TO DEGREE COMPLETION	120-122	fulfill a Gen. Ed. red	quirement.	

Denotes that 3 credit hours from this course are/can be applie	d to
fulfill a Gen. Ed. requirement	

^{*} PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division BIO courses. CHE 111/1111, 112/1121, MAT 112 or

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300-level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

 $Refer\ to\ the\ University\ Catalog\ at\ \underline{http://www.catalogs.eku.edu/}\ regarding\ University\ and\ General\ Education\ Requirements.$

higher.

Student must have completed 30 hours by the end of the second semester and apply for admission to Professional Education Program.

Must be completed before enrolling in CED 300 and applying to the Teacher Ed. program.