CURRICULUM GUIDE

Biology, B.S. (Teaching Concentration)

2020-2021

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. Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester	
Freshman	SCO 100B	1	EDF 203	3
Year	BIO 111	4	CED 100	0
Teal	^G CHE 111 (fulfills Gen. Ed. 4)	3	^G SED 104 (fulfills Gen. Ed. 6)	3
	CHE 111L	1	BIO 112	4
	۞ ^G † MAT Requirement		CHE 112	3
	(fulfulls Gen. Ed. 2)	3-5	CHE 112L	1
	ᢒ Gen. Ed. 1A (<i>ENG 101</i>)	3	ூ Gen. Ed. 1B (<i>ENG 102</i>)	3
	TOTAL	15-17	TOTAL	17
Sophomore	BIO 319	4	EDF 219	3
Year	CHE 361	3	CED 200	0
Tear	CHE 361L	1	BIO 318	4
	Gen. Ed. 1C (Oral Comm.)	3	CHE 362	3
	Gen. Ed. 3B (Humanities) (PHI		CHE 362L	1
	110, 130, 300, or 320	1/	Gen. Ed. 3A (Arts)	3
	recommended)	3	Gen. Ed. 5A (History)	3
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3		
	❖ 30 hrs complete + apply to		\mathcal{O}	
	professional education program TOTAL	17	TOTAL	17
Junior	EDC 300	3	EDF 413	3
	EDF 204	2	EMS 490 (spring only)	3
Year	CED 300	0.5	CED 400	0.5
	EMS 300W	3	BIO 320 (<i>ACCT</i>)	4
	BIO 315	4	BIO 348	4
	^G PHY 131 <u>or</u> 201 (fulfills Gen.		§ PHY 132, 202 <u>or</u> GLY 108	3-5
	Ed. 4)	5	_	
	TOTAL	17.5	TOTAL	17.5-
Senior	ESE 561	3	CED 499	19.5 §
	CED 450 (fall only)	1	EMS 474	3
Year	BIO 316	4		5
	BIO 495	1		
	STA 215 or 270	3-4		
	Gen. Ed. 6 (<i>Diversity</i>)	3		
	APPLY FOR STUDENT TEACHING			
	TOTAL	15-16	TOTAL	12
	то	TAL HOUI	RS TO DEGREE COMPLETION	128-133

* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division BIO courses. CHE 111/1111, 112/1121, 361, and/or 366;
MAT 112 or higher.
Ctudent much being completed 20 being by the and of the second competer and apply for admission to Deefeesianal Education Decayang

Student must have completed 30 hours by the end of the second semester and apply for admission to Professional Education Program.
§ In order to take more than 18 hours per semester, you must seek approval from the Office of the Associate Dean in Roark 106.
• Must be completed before enrolling in CED 300 and applying to the Teacher Ed. program.

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 http://www.catalogs.eku.edu/regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Biology majors will fulfill ACCT with one of the following: BIO 320, 349, 598, HON 420 with a thesis topic approved by the Biology department, a program-approved leadership experience, or a program-approved study abroad experience. (Credit hours are incorporated into program requirements.)

Course	Course Name		
Number			
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)			
SCO 100B	Student Success Seminar for Biology (1)		
CORE COURSE REQUIREMENTS (29)			
BIO 111 BIO 112	Cell and Molecular Biology (4)		
BIO 315	Ecology and Evolution(4) Genetics (4)		
BIO 316	Ecology (4)		
BIO 318	Botany (4)		
BIO 319 BIO 320	Zoology (4) Principles of Microbiology (4)		
BIO 495	Evolution Theory and Application (1)		
BIOLOGY TEACHIN	IG CONCENTRATION REQUIREMENTS (3)		
BIO 348	Animal Physiology (3)		
SUPPORTING COU	IRSE REQUIREMENTS (21-26)		
¶GCHE 111	General Chemistry I (3)		
CHE 111L	General Chemistry Lab I (1)		
* CHE 112 * CHE 112L	General Chemistry II (3) General Chemistry Lab II (1)		
] * CHE 361	Organic Chemistry I (3)		
L* CHE 361L	Organic Chemistry Lab I (1)		
* CHE 362 * CHE 362L	Organic Chemistry II (3) Organic Chemistry Lab II (1)		
^G PHY 131 <u>or</u>	College Physics I (5)		
^G PHY 201	University Physics I (5)		
PHY 132 <u>or</u>	College Physics II (5)		
PHY 202 <u>or</u> GLY 108	University Physics II (5) Plate Tectonics: The Active Earth (3)		
^G STA 215 <u>or</u>	Intro. to Statistical Reasoning (3)		
^G * STA 270	Applied Statistics I (4)		
	HEMATICS COURSE SELECTED FROM (any of which can		
G * MAT 120	al Education, Element 2):		
G* MAT 122	Trigonometry (3) Precalculus Mathematics (5)		
^G * MAT 211	Applied Calculus (3)		
^G * MAT 234	Calculus I (4)		
	ed items must be taken concurrently.		
PROFESSIONAL ED EDC 300	DUCATION REQUIREMENTS (37) Differentiation Inclusive Classrooms (3)		
EDF 203	Philosophical & Historical Found. of Ed. (3)		
EDF 204	Emerging Instructional Technologies (2)		
EDF 219	Human Development and Learning (3)		
EDF 413 EMS 300W	Assessment in Education (3) Curriculum & Instructional Design (3)		
EMS 474	Teaching Content Reading (3)		
EMS 490	Classroom & Behavior Management in P-12 (3)		
ESE 561	(spring only) Teaching Science in the Secondary Schools (3)		
^G SED 104	Introduction to Special Education (3)		
PLUS ELEVEN (11) HO	OURS of Clinical Experiences to include:		
CED 100	Clinical I: Intro to the Education Prof. (0)		
CED 200	Clinical II: Understanding the Learner (0)		
CED 300 CED 400	Clinical III: curriculum and Instruct. Des. (0.5) Clinical IV: Diagnosis & Perception (0.5)		
CED 450	Clinical IV: Diagnosis & Perception (0.5) Clinical V: Practicing Teaching (1) (fall only)		
CED 499	Supervised Student Teaching P-12 (9)		

^G Denotes that 3 credit hours from this course are/can be applied to fulfill