Fort Hays State University–Bachelor of Science in Biology–Health Professions (120 Credit Hours) FALL 2023

General Education Program (34-35 Hours; starting Fall 2023)

Course No.	Course Title	<u>Hrs.</u>	Grade	
English (6)	h anna)			
English (o		2		
	English Composition I	3		
ENG 102	English Composition II	3		
Communi	cation (3 hours)			
COMM 100	Fundamentals of Oral Communication	3		
Math and	Stats (3 hours)			
MATH 105	College Algebra with Review	3		
MATH 110	College Algebra	3		
MATH 234	Analytic Geometry and Calculus I	3		
MATH 331	Calculus Methods*	3		
Arts and H	Iumanities (6 hours; 2 areas recommend	led)		
Aesthetic				
ART 180	Fundamentals and Appreciation of Art	3		
ART 201	Survey of Art History I	3		
MUS 161	Listening to Music	3		
THTR 120	Introduction to Theatre	3		
Historical				
HIST 110	World Civilization to 1500	3		
HIST 111	Modern World Civilization	3		
HIST 130	United States History to 1877	3		
HIST 131	United States History since 1877	3		
Philosophica	1			
PHIL 120	Introduction to Philosophy	3		
PHIL 170	World Religions	3		
PHIL 340	Ethics	3		
Natural and Physical Sciences (4 hours; 1 course w/Lab)				
BIOL 180	Principles of Biology*	3		
BIOL 180L	Principles of Biology Lab*	1		

Course No.	Course Title	<u>Hrs.</u>	Grade
Social and	Behavioral Sciences (6 hours; 2 areas reco	ommend	ed)
Social Scien	ce Requirement (choose 1 course)		
CRJ 360	Social Justice Action and Policy	3	
PSY 100	General Psychology	3	
SOC 140	Understanding Society	3	
SOC 310	Gender and Society	3	
LDRS 200	Discovering Leadership	3	
Engaged (Global Citizens Requirement (choose 1 co	urse)	
GSCI 110	World Geography	3	
POLS 105	Current Political Issues	3	
SOC 333	Global Forces in a Changing World	3	
TECS 391	Technology in Society	3	
Institutior	nally Designated Area (6 hours; 2 areas rec	ommeno	led)
Critical Thi	nking		
PHIL 100	Critical Thinking	3	
Personal and	d Professional Development		
FIN 205	Theory and Practice of Personal Finance	3	
GSCI 240	Introduction to Geographic Info Systems	3	
HHP 200	Personal Wellness	3	
INF 101	Introduction to Computer Information Systems	3	
MIL 302	Soldier Health and Fitness	3	
*Counts towa	ards General Education and the Biology major.		

Other courses may fulfill the requirements. The recommendations listed here are for Biology majors. Please check with your faculty mentor or professional advisor for other course options.

You must complete 120 credit hours to earn a bachelor's degree.

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1. Biology Core (16 Hours)

Required:			
BIOL 180/180L*	Principles of Biology/Lab	4	F S
BIOL 325/325L	Genetics/Lab	4	F S
Take two of the follow	ving:		
BIOL 250/250L	Botany/Lab	4	F S
BIOL 260/260L	Zoology/Lab	4	F S
BIOL 490/490L	General Microbiology/Lab	4	F S
*Counts towards Cons	nol Education and the Diclosumai		

*Counts towards General Education and the Biology major.

2. Structure and Function Requirement (8 hours)

Take two of the following, at least one of which must be a physiology course:			
BIOL 330/330L	Plant Anatomy/Lab	4	F
BIOL 345/345L	Human Anatomy/Lab	4	F S
BIOL 346/346L	Human Physiology/Lab	4	F S
BIOL 450/450L	Comparative Anatomy/Lab	4	F (odd)
BIOL 495/495L	Plant Physiology/Lab	4	S

3. Additional Process Class (minimum 3 hours)

Take one of the follo	owing:		
BIOL 395/395L	Ecology	4	S
BIOL 435	Cellular Biology	3	S
BIOL 420	Evolution	3	F

4. Upper-Division Requirements (11-28 hours)

Take any of courses with "BIOL" prefix and 300 level or above from either the list below or courses listed above that were not used to meet the requirements for that section. Courses other than those listed may be available. Talk to your faculty mentor and academic advisor. The number of credit hours completed in this section, depends on the number of credit hours completed in sections 3, 6, and 7.

BIOL 401	Virology	3	S (odd)
BIOL 470/471	Problems in Biology	1-4	F S
BIOL 476	Internship in Biology	1-3	F S
BIOL 482	Readings in Biology	1-3	F S
BIOL 627	Behavioral Ecology	3	S (even)
BIOL 642/642L	Parasitology	3	S (odd)
BIOL 644/644L	Embryology	4	F (even)
BIOL 648	Immunology	3	F
BIOL 675	Microbiology of the Pathogens	3	S (even)

5. Discipline Writing Course Graduation Requirement (3 hours) BIOL 442 Scientific Communication 3 F

6. Cognates- Chemistry & Physics (30-40 hours)

(In consultation with advisor/mentor, depending on professional school requirements. Ask your advisor about a Chemistry minor.)

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General Chemistry (10) hours)		
CHEM 120/120L	University Chemistry I/ Lab	5	F
CHEM 122/122L	University Chemistry II/ Lab	5	S
Organic Chemistry ele	ective (minimum 5 hours)		
CHEM 304/304L	Essentials of Organic Chemistry/Lab	5	F
Or:			
CHEM 340/340L	Organic Chemistry I/Lab	5	F
CHEM 342/342L	Organic Chemistry II/Lab	5	S
Biochemistry elective	(minimum 5 hours)		
CHEM 360/360L	Essentials of Biochemistry/Lab	5	S
Or:			
CHEM 662/662L	Biochemistry I/ Lab	5	F
CHEM 664/664L	Biochemistry II/Lab	5	S
Physics (10 hours)			
Take:			
PHYS 111/111L	Physics I/Lab	5	F
PHYS 112/112L	Physics II/Lab	5	S
OR:			
PHYS 211/211L	Physics for Sci and Engr. I/Lab	5	F S
PHYS 212/212L	Physics for Sci and Engr. II/Lab	5	F S

7. Cognates - Mathematics (minimum 6 hours)

Take one course in Statis	stics:		
MATH 250	Elements of Statistics	3	F S
OR:			
BIOL 620/620L	Biostatistics/Lab	4	F
Take one course in Quantitative Analysis:			
MATH 331	Calculus Methods*	3	F S
OR:			
MATH 122	Plane Trigonometry	3	F S
*Counts towards General Education and the Biology major.			

F = Fall Offering, S = Spring Offering

YOU MUST COMPLETE 120 CREDIT HOURS TO EARN A **BACHELOR'S DEGREE.**