

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

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

<u>Course No.</u>	<u>Course Title</u>	<u>Hrs.</u>	<u>Grade</u>
English (6 hours)			
ENG 101	English Composition I	3	_____
ENG 102	English Composition II	3	_____
Communication (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 Humanities (6 hours; 2 areas recommended)			
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	_____
Philosophical			
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	_____

<u>Course No.</u>	<u>Course Title</u>	<u>Hrs.</u>	<u>Grade</u>
Social and Behavioral Sciences (6 hours; 2 areas recommended)			
Social Science 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 course)			
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	_____
Institutionally Designated Area (6 hours; 2 areas recommended)			
Critical Thinking			
PHIL 100	Critical Thinking	3	_____
Personal and 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 towards 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 following:				
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

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2. Structure and Function Requirement (8 hours)

Take **two** of the following:

BIOL 230/230L*	Anatomy & Physiology I/ Lab	4	_____	F S*
BIOL 231/231L*	Anatomy & Physiology II/ Lab	4	_____	F S*
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

*BIOL 230/230L and BIOL 231/231L must be taken in combination

3. Additional Process Class (minimum 3 hours)

Take **one** of the following:

BIOL 395/395L	Ecology/ Lab	4	_____	S
BIOL 435	Cellular Biology	3	_____	S
BIOL 420	Evolution	3	_____	F

4. Upper-Division Requirements (18-24 hours required)

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, 7, and 8.

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 610/610L	Taxonomy Flowering Plants	4	_____	F
BIOL 619/619L	Aquatic Ecology	4	_____	F (odd)
BIOL 627	Behavioral Ecology	3	_____	S (even)
BIOL 642/642L	Parasitology	4	_____	S (odd)
BIOL 644/644L	Embryology	4	_____	F (even)
BIOL 648	Immunology	3	_____	F
BIOL 665	Biodiversity & Conserve. Biol.	3	_____	S
BIOL 672/672L	Statistical Applications	4	_____	S (even)
BIOL 675	Microbiology of the Pathogens	3	_____	S (even)

5. Discipline Writing Course Graduate Requirement (3 hours)

BIOL 442	Scientific Communication	3	_____	F
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6. Chemistry Cognates (6-10 Hours)

Take two of the following:

CHEM 120/120L	University Chemistry I/ Lab	5	_____	F
CHEM 122/122L	University Chemistry II/ Lab	5	_____	S
Or:				
CHEM 112/112L	General Chemistry I/ Lab	4	_____	F
CHEM 114/114L	General Chemistry II/ Lab	4	_____	S

7. Mathematics Cognates (minimum 6 Hours)

Mathematics

Take one course in Statistics:

MATH 250	Elements of Statistics	3	_____	F S
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OR:

BIOL 620/620L	Biostatistics/Lab	4	_____	F
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Take one course in Quantitative Analysis:

MATH 331*	Calculus Methods	3	_____	F S
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OR:

MATH 112	Plane Trigonometry	3	_____	F S
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8. Earn a minor (20-21 hours)

Recommendations: (other minors are possible; talk to your faculty mentor and academic advisor)

Agriculture	20 hours
Chemistry	20 hours
GeoSciences	20 hours
Psychology	21 hours
Criminal Justice	21 hours

F = Fall Offering, S = Spring Offering

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