

# Fort Hays State University – Bachelor of Science in Biology – Secondary Education (150 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>
<b>English (6 hours)</b>			
ENG 101	English Composition I	3	_____
ENG 102	English Composition II**	3	_____
<b>Communication (3 hours)</b>			
COMM 100	Fundamentals of Oral Communication**	3	_____
<b>Math and Stats (3 hours)</b>			
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	_____
<b>Arts and Humanities (6 hours; 2 areas recommended)</b>			
<b>Aesthetic</b>			
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	_____
<b>Historical</b>			
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	_____
<b>Philosophical</b>			
PHIL 120	Introduction to Philosophy	3	_____
PHIL 170	World Religions	3	_____
PHIL 340	Ethics	3	_____
<b>Natural and Physical Sciences (4 hours; 1 course w/Lab)</b>			
BIOL 180	Principles of Biology*	3	_____
BIOL 180L	Principles of Biology Lab*	1	_____

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### 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	_____
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#### 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.

\*\*Education majors need a B or better.

**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 150 credit hours to earn both the Biology and Education bachelor's degrees.**

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## FALL 2023

### Biology Core (42 Hours)

**Required:**

BIOL 180/180L	Principles of Biology/Lab*	4	_____	F S
BIOL 230/230L	Anatomy and Physiology I/Lab	4	_____	F S
BIOL 231/231L	Anatomy and Physiology II/Lab	4	_____	F S
BIOL 235	Early Field Experience	1	_____	F S
BIOL 250/250L	Botany/Lab	4	_____	F S
BIOL 260/260L	Zoology/Lab	4	_____	F S
BIOL 325/325L	Genetics/Lab	4	_____	F S
BIOL 490/490L	General Microbiology/ Lab	4	_____	F S
BIOL 499	Global Environmental Issues	3	_____	F S
BIOL 420	Evolution	3	_____	F
BIOL 395/395L	Ecology	4	_____	S
BIOL 3XX or above	Upper-division elective	3	_____	F S

\*Counts towards General Education and the Biology major.

### 1. Discipline Writing Course Graduation Requirement (3 hours)

BIOL 442	Scientific Communication	3	_____	F
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### 2. Required Science Cognates (25 Hours)

**Chemistry**

CHEM 120/120L	University Chemistry I/ Lab	5	_____	F
CHEM 122/122L	University Chemistry II/ Lab	5	_____	S
CHEM 480	Laboratory Safety	1	_____	S

**Mathematics**

MATH 110	College Algebra*	3	_____	F S
MATH 331	Calculus Methods	3	_____	F S
STAT200	Statistics	3	_____	F S

\*Counts towards General Education and the Biology major.

**Physics**

PHYS 111/111L	Physics I/Lab	5	_____	F
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### 3. Required Education Courses (33 Hours)

**Required:**

TEEL 202	Foundations of Education <sup>1</sup>	3	_____	F S
TEEL 231	Human Growth and Development <sup>1</sup>	3	_____	F S
TESP 302	Educating Students with Exceptionalities <sup>1</sup>	3	_____	F S
TECS 301	Introduction to Instructional Technology <sup>1</sup>	3	_____	F S
TEEL 431	Educational Psychology <sup>2</sup>	3	_____	F S
TESS 494	Secondary School Experience <sup>2</sup>	4	_____	F S
TESS 496	Directed Teaching- Secondary <sup>2</sup>	12	_____	F S
TESS 406	Science Teaching Methods	2	_____	S

<sup>1</sup>Taken before admission to teacher education program.

<sup>2</sup>Taken after admission to teacher education program.

### 4. 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 150 CREDIT HOURS TO EARN YOUR BIOLOGY and EDUCATION BACHELOR'S DEGREE.**