

# Bachelor of Science in Secondary Education: Biology

## Program Overview

"Shaping tomorrow's teachers today" is the cornerstone of our All Grade Education program. Graduates successfully complete licensure programs to work with students in preschool through 12<sup>th</sup> grade. Classroom teaching experiences each semester ensure that our students have the best skills possible to work with young people of all ages. Our state-of-the-art curriculum aligns courses together so that you'll take less, learn more, and leave our program with licenses to teach in all school settings: For Secondary, you will be licensed to teach fifth grade through twelfth grade.

## Degree Requirements

To earn this degree, students must have a GPA of 2.75 or higher in the Major as well as an overall GPA of 2.5, complete a minimum of 120 credit hours, and fulfill the course requirements of the program listed below.

\*This is a sample plan; specific courses may vary from year to year. Academic advisors will work with each student to develop their individual schedule.

MAJOR	*Options
CORE	^CORE equivalent
ELECTIVE/MINOR	
EXPERIENTIAL	

**Total Program Credits: 120+**

CORE		CREDITS
✓	Foundation	
	LA-FWS First-Year Writing Seminar	3
	LA-FCS First-Year Communication Seminar	3
	LA-FQR Quantitative Reasoning	3-4
	LA-FSS First Year Success Seminar	1
	LA-FCG Cultural and Global Understanding	3-5
	Exploration	
	LA-EAH Arts and Humanities	3
	LA-ENS Natural Sciences	3-6
	LA-ESS Social Sciences	3-4
	Transformation	
	LA-TFR Faith, Reason, and Ethics	3
	LA-TBI Big Issues - 2 courses	6-7
	LA-TCE Creative Expression	1-3
Additional credits to bring total to 120+ credits		CREDITS
✓	Electives	
	Experiential Learning	

Secondary and All-Grade Education		CREDITS
✓		
	EDUC 111^ Exploring Educational Systems	3
	EDUC 112 The Exceptional Learner	3
	EDUC 202 Professional Learning Communities I	0.5
	EDUC 204 Professional Learning Communities II	0.5
	EDUC 207 Integrating Technology into Classroom	3
	EDUC 223 Child & Adolescent Development	3
	EDUC 230^ Educational Psychology	3
	EDUC 246 Educational Assessment	3
	EDUC 302 Professional Learning Communities III	0.5
	EDUC 304 Professional Learning Communities IV	0.5
	EDUC 343 Disciplinary Literacy	3
	EDUC 402 Professional Learning Communities V	0.5
	EDUC 430 Culturally Responsive Classrooms	3
	EDUC 440 General Methods for Adolescent Learners	3
	INTD 355^ Critical Issues in Education	3
	ENG/MODL 350 Teaching English to Speakers of Other Languages	3
	EDUC 475 High School Student Teaching	7
	EDUC 477 Jr High/Middle School Student Teaching	6
Biology Required Courses		CREDITS
	BIOL 104 Science of Human Health	3
	BIOL 106/L^ Principles of Biology I/Lab	4
	BIOL 108/L Principles of Biology II/Lab	4
	BIOL 229/L Introduction to Molecular Biology/Lab	4
	BIOL 260 Genetics	3
	NASC 210^ Exploration of Natural Science	3
Choose 1 of the following:		CREDITS
	BIOL 244/L Botany/L	4
	BIOL 245/L Plant Sciences/ Lab	4
Choose 1 of the following:		CREDITS
	BIOL 313/L Microbiology/Lab	4
	BIOL 365 Cell Biology	3
Choose 1 of the following:		CREDITS
	BIOL 315/L Ecology/Lab	4
	BIOL 413/L Limnology/Lab	4
Choose 2 semesters of chemistry w/lab from one sequence below		CREDITS
	CHEM 105/R/L Intro to Inorganic Chemistry/Recitation/Lab	5
	CHEM 106/L Intro to Organic Chemistry/Lab	4
or		
	CHEM 111/R/L General Chemistry I/Recitation/Lab	5
	CHEM 113/R/L General Chemistry II/Recitation/Lab	5

Example Course Sequence:

The following is a sample of a semester-by-semester approach to completing this program in 4 years.

YEAR 1						
FIRST SEMESTER						
COURSE		CREDITS	PREREQUISITES			
EDUC 111^	Exploring Educational Systems	3				
EDUC 223	Child & Adolescent Development	3				
LA-FWS	First-Year Writing Seminar	3				
BIOL 104	Science of Human Health	3				
BIOL 106/L^	Principles of Biology I/Lab	4				
JAN TERM						
COURSE		CREDITS				
SECOND SEMESTER						
COURSE		CREDITS				
EDUC 112	The Exceptional Learner	3				
LA-FQR	Quantitative Reasoning	3				
LA-FCS	First-Year Communication Seminar	3				
LA-FSS	First Year Success Seminar	1				
BIOL 108/L	Principles of Biology II/Lab	4				
		30				

YEAR 2						
THIRD SEMESTER						
COURSE		CREDITS	PREREQUISITES			
EDUC 230^	Educational Psychology	3				
EDUC 202	Professional Learning Communities I	0.5				
LA-TFR	Faith, Reason, and Ethics	3				
CHEM 105/R/L*	Intro to Inorganic Chemistry/Recitation/Lab	5				
BIOL 260	Genetics	3	BIOL 106/L and BIOL 108/L			
JAN TERM						
COURSE		CREDITS				
LA-EAH	Arts and Humanities	3				
FOURTH SEMESTER						
COURSE		CREDITS				
EDUC 204	Professional Learning Communities II	0.5				
EDUC 207	Integrating Technology into Classroom	3				
EDUC 246	Educational Assessment	3				
CHEM 106/L*	Intro to Organic Chemistry/Lab	4	CHEM 105			
BIOL 244/L*	Botany/Lab	4	BIOL 106/L and BIOL 108/L			
		32				

4-Year Sample Schedule Cont.

YEAR 3			
FIFTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
EDUC 302	Professional Learning Communities III	0.5	
ENG/MODL 350	Teaching English to Speakers of Other Languages	3	
LA-TBI	Big Issues - 2 courses	3	
LA-TCE	Creative Expression	3	
BIOL 229/L	Introduction to Molecular Biology/Lab	4	One year of biology and one year of chemistry
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
SIXTH SEMESTER			
COURSE		CREDITS	
EDUC 304	Professional Learning Communities IV	0.5	
EDUC 343	Disciplinary Literacy	3	EDUC 230
INTD 355^	Critical Issues in Education	3	soph, junior, or senior standing
BIOL 313/L*	Microbiology/Lab	4	BIOL 229 or BIOL 260
		27	

YEAR 4			
SEVENTH SEMESTER			
COURSE		CREDITS	PREREQUISITES
EDUC 402	Professional Learning Communities V	0.5	
EDUC 430	Culturally Responsive Classrooms	3	Admission to program, junior or senior standing
EDUC 440	General Methods for Adolescent Learners	3	EDUC 343
BIOL 315/L	Ecology/Lab	4	BIOL 106/L and BIOL 108/L
NASC 210^	Exploration of Natural Science	3	
JAN TERM			
COURSE		CREDITS	
EXPERIENTIAL		3	
EIGHTH SEMESTER			
COURSE		CREDITS	
EDUC 475	High School Student Teaching	7	Completion of the program; professor approval required
EDUC 477	Jr High/Middle School Student Teaching	6	Completion of the program; professor approval required
EXPERIENTIAL		3	
		32.5	
	TOTAL CREDITS	121.5	