

BIOLOGY SECONDARY EDUCATION, BEd

Pending Washburn University Board of Regents approval

The Bachelor of Education (BEd) in Biology Secondary Education is designed for those students seeking teaching certification in Biology.

Student Learning Outcomes

Biology Secondary Education Majors with a Bachelor of Education degree, upon completion of the program, will be able to:

- Understand and explain the similarities and differences between how a variety of organisms live and grow.
- Understand and explain how organisms interact with their environment.
- Understand and explain how genetic information is transmitted from one generation to the next and how genetic variation is lost or maintained.
- Understand and explain evolutionary principles and processes and how they provide evidence that shows the relatedness of different species.
- Incorporate core biological ideas, scientific and engineering practices, and crosscutting concepts into instruction.
- Demonstrate an ability to create and manage environments that support learning.

The Bachelor of Education (BEd) in Biology Secondary Education requires a minimum of 120 credit hours as outlined below.

Code	Title	Hours
University Requirements		
EN 101	First Year Writing	3
EN 300	Advanced College Writing	3
MA 116	College Algebra	3
WU 101	The Washburn Experience	3
Subtotal		12
General Education Requirements		
Social Sciences, GESS		9
Humanities, GEHU ¹		9
Natural Sciences, GENS (9) - Satisfied by Non-Biology required correlated natural science coursework		0
Subtotal		18
Biology Course Requirements		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 255	Human Physiology	4
BI 275	Human Anatomy	4
BI 301	General Microbiology	4
BI 310	Ecology	4
BI 319	Biology for STEM Educators	3
BI 333	General Genetics	4
BI 340	Evolutionary Biology	3
Subtotal		36
Correlated Science Course Requirements ²		

CH 121	General, Organic, and Biological Chemistry	5
MA 140	Statistics	3
PS 131	Biological Physics for the Health and Life Sciences	3
PS 132	Biological Physics for the Health and Life Sciences Laboratory	1
Subtotal		12
Required Behavior Course		
Select one of the following:		3
AN 311	Primate Social Behavior	
BI 202	Biology of Behavior	
PY 307	Physiological Psychology	
Subtotal		3
Education Course Requirements		
ED 155	Teaching, Learning, Leadership	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 285	Educational Psychology	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 345	Practicum Infants & Toddlers Education	3
ED 352	Methods of Teaching Science in Secondary School	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 410	Secondary Student Teaching	12
Subtotal		39
Total Hours		120

¹ 3 of which must be AR, MU, or TH

² satisfies GENS requirements