

**TRANSFER STUDENTS WITH A COMPLETED B.A. OR B.S. DEGREE FROM ANOTHER  
ACCREDITED COLLEGE OR UNIVERSITY**

**DEGREE PLAN FOR TEACHING CERTIFICATION IN SECONDARY  
EDUCATION IN BIOLOGY (6-12) AT WASHBURN UNIVERSITY**

To be certified to teach at the secondary level in Kansas, a candidate must satisfy the Kansas State Department of Education requirements for the teaching certification 6-12.

- Bachelor's degree from an accredited college or university
- Recommendation from an accredited institution verifying completion of a state-approved program in the subject or field in which certification is sought.
- Minimum cumulative GPA of 2.50 in the teaching field courses on a 4.0 scale.

To satisfy Kansas State Department of Education requirements for teaching certification in Biology (6-12), the state-approved program of the Department of Biology at Washburn requires that candidates fulfill the following requirements:

- Completion of the field-specified courses required by the Biology Department (as listed below) or substitutions thereof, approved by the University Officer in the Department of Education, in consultation with the Biology Department.
- Minimum cumulative GPA of 2.75 in the teaching field courses on a 4.0 scale.
- Successful completion of the State competency test for certification in Biology.

Transfer students with a bachelor degree from another accredited college or university must fulfill the following required courses for teaching Biology as set by the Department of Biology at Washburn or substitutions thereof, approved by the Department of Biology in agreement with the Certification Officer in the Department of Education.

1. Required courses in Biology:

a. 21 hours of core courses in Biology:

BI102	General Cellular Biology	(5)	BI301	General Microbiology	(4)
BI105	General Botany	(4)	BI333	General Genetics	(4)
BI110	General Zoology	(4)			

These core courses are not required for transfer students holding a bachelor degree:

BI390	Biology Seminar	(1)	BI395/6	Research in Biology	(1)
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b. 15 hours of elective courses must be taken. Of these a minimum of 12 hours must be upper division courses – numbered 300 and above.

c. Required courses for Biology Teacher Education

BI155	Sexually Transmitted Diseases	(1)	or BI325
BI202	Biology of Behavior	(3)	
BI250	Introduction to Human Anatomy	(3)	or BI275 or BI320
BI255	Human Physiology	(4)	
BI310	Ecology	(4)	
BI340	Evolutionary Biology	(2)	

2. Required physical sciences/math/computer science courses (credit hours in parenthesis)

**Chemistry:**

CH151	Fundamentals of Chemistry I	(5)
CH152	Fundamentals of Chemistry II	(5)
CH340	Organic Chemistry I	(3)
CH342	Organic Chemistry Laboratory I	(2)

**Physics:**

PS261	College Physics I AND	(5)
PS262	College Physics II	(5)
	OR	
PS281	General Physics I AND	(5)
PS283	General Physics II	(5)

**Mathematics and Computer Information Sciences:**

MA116	College Algebra	(3)
MA117	Trigonometry OR	(3)
MA140	Statistics	(3)

3. General Education Requirements:

General Education course requirements must be fulfilled according to the University catalog outline. 76 credits outside Biology.

EN101	(3)	Humanities	(9)
EN300	(3) Teaching Emph.	Social Sciences	(9)
PE198	(2)		