



**Education
Teacher Education in Biology
Bachelor of Arts
Traditional**

Program Coordinators: K. Vaughan, Biology and R. Gilmore, Education

Teacher Education - BIOLOGY

The B.A. in Biology (with Licensure for Grades 6-12) is available with modifications to the Biology B.A.–General Biology Track and the King Core Curriculum plus successful completion of the Secondary Education minor. Licensed teachers in secondary education are in great demand in all fifty states, and science is considered a critical need area in K-12 public education by all states.

Declaration of the Education minor and early and frequent advisement is essential to timely completion of degree and licensure requirements. Students seeking teacher licensure will be assigned a secondary education advisor in the Department of Teacher Education, in addition to their major advisor. See the “Admission to the Teacher Education Program” section of this catalog or contact the Certification Advisor in the School of Education for eligibility criteria, admissions procedures, and timelines.

Core Curriculum Requirements

Biology majors seeking teaching licensure should fulfill specified categories of the King Core Curriculum by taking the courses indicated below. See the “The Core Curriculum” section of the catalog for additional details on fulfillment of other categories.

Science

CHEM 1110
General Chemistry I..... 4 s.h.

Quantitative Literacy

MATH 2350
Calculus I 4 s.h.

General Science and Physical Science Core Required for 6-12 Licensure

CHEM 1120
General Chemistry II 4 s.h.
CHEM 2110
Organic Chemistry I..... 4 s.h.
GEOG 2010
Physical Geography 3 s.h.
PHYS 2210
General Physics I 4 s.h.

BA In Biology Major Requirements for Teaching Licensure

BIOL 2110
General Biology I..... 4 s.h.

BIOL 2120	
General Biology II	4 s.h.
BIOL 3100	
Plant Biology	4 s.h.
BIOL 3130	
Ecology	4 s.h.
BIOL 3760	
Genetics	4 s.h.
<i>Choose from the following courses</i>	4 s.h.
BIOL 3300	
Cell Biology (4 s.h.)	
BIOL 3640	
Neurophysiology (4 s.h.)	
BIOL 3600	
Human and Mammalian Physiology (4 s.h.)	
<i>Choose from the following courses</i>	4 s.h.
BIOL 3310	
Human and Vertebrate Comparative Anatomy (4 s.h.)	
BIOL 3200	
Histology (4 s.h.)	
BIOL 3260	
Clinical Neuroanatomy (4 s.h.)	
<i>Choose from the following courses</i>	4 s.h.
BIOL	
Any course at 3000-level or higher (4 s.h.)	
PHYS 2030	
Survey of Astronomy (4 s.h.)	
MATH 1560	
Introduction to Statistics (4 s.h.)	
MATH 2360	
Calculus II (4 s.h.)	
IDST 4500 (0.5 s.h. repeated for a total of four semesters)	
Interdepartmental Science and Mathematics Seminar	2 s.h.
BIOL 4990	
Comprehensive Assessment	0 s.h.

Secondary Education Minor

EDUC 2030	
Introduction to Teaching: K-Grade 12.....	2 s.h.
EDUC 2031	
Introduction to Teaching Practicum: Grades PreK-12	1 s.h.
EDUC 2100	
Survey of Exceptional Children.....	4 s.h.
EDUC 2370	
Reflective Teaching: Planning for Classroom Instruction.....	3 s.h.
EDUC 2900	
Foundations of Education	3 s.h.
EDUC 2950	
Technology for Teachers	2 s.h.

EDUC 3390*	
Secondary Curriculum and Methods	3 s.h.
EDUC 3590*	
Content Area Reading.....	3 s.h.
EDUC 3600*	
Assessment and Evaluation	3 s.h.
PSCI 2120	
Cultural Diversity in America.....	4 s.h.
PSYC 3320	
Adolescent Development.....	4 s.h.
EDUC 4490*	
Student Teaching: Grades 6-10.....	5 s.h.
EDUC 4500*	
Student Teaching: Grades 9-12.....	5 s.h.
EDUC 4940	
Introduction to edTPA	1 s.h.
EDUC 4950*	
Capstone Seminar: Grades K-12	2 s.h.
EDUC 4990	
Comprehensive Assessment (passing state-required Praxis II exams, successful portfolio completion, successful portfolio defense).....	0 s.h.

*Requires admittance to the Teacher Education Program

Summary of Total Credits

Core Curriculum	42 s.h.
Major Requirements.....	49 s.h.
Secondary Education Minor.....	45 s.h.
Minimum to Complete Licensure Program.....	136 s.h.