Teacher Education – BIOLOGY

Tennessee teaching licensure (Grades 6-12) is available with modifications to the Biology BA track and the King Core, and successful completion of the Secondary Education minor. Licensed teachers in secondary education are in great demand in all fifty states, and the areas of science, mathematics, English as a second language, and foreign languages are considered critical need areas in K-12 public education by all states.

Declaration of the 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.

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

Quantitative Literacy
MATH 2350
Calculus I  ....................................................................................4 s.h.

Literature
Choose from the following courses (pair with history) ............... 4 s.h.
   ENGL 2171
   Western Literature I (4 s.h.)
   ENGL 2172
   Western Literature II (4 s.h.)

History
Choose from the following courses (pair with literature) .......... 4 s.h.
   HIST 2171
   Western Civilization in Global Context I (4 s.h.)
HIST 2172  
Western Civilization in Global Context II (4 s.h.)

**General Science and Physical Science Core**
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 Track Requirements for Teaching Licensure**
BIOL 2110  
General Biology I ......................................................... 4 s.h.
BIOL 2120  
General Biology II ................................................................ 4 s.h.
BIOL 3150  
Molecular Genetics ......................................................... 4 s.h.
BIOL 3130  
Plant Ecology (4 s.h.)

*Choose from the following courses* ........................................ 4 s.h.
BIOL 3540  
Neuroscience (4 s.h.)
BIOL 4670  
Mammalian Toxicology (4 s.h.)

IDST 4500  
Interdepartmental Science and Mathematics Seminar .............. 2 s.h.

*Choose from the following courses* ........................................ 4 s.h.
BIOL 3300  
Cell Biology (4 s.h.)
BIOL 3600  
Human and Mammalian Physiology (4 s.h.)

*Choose from the following courses* ........................................ 4 s.h.
BIOL 3210  
Human and Vertebrate Comparative Anatomy (4 s.h.)
BIOL 3500  
Histology (4 s.h.)
BIOL 3550  
Advanced Topics in Neuroscience (4 s.h.)

*Choose from the following courses* ........................................ 4 s.h.
BIOL 1010  
Human Anatomy & Physiology I (4 s.h.)
BIOL 1020  
Human Anatomy & Physiology II (4 s.h.)
PHYS 2030
  Survey of Astronomy (4 s.h.)
COMM 2200
  Technical Communication (4 s.h.)
COMM 3230
  Science & Medical Writing (4 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.
EDUC 4490*
  Student Teaching, Grades 6-10 ......................................................5 s.h.
EDUC 4500*
  Student Teaching, Grades 9-12 ......................................................5 s.h.
EDUC 4950*
  Capstone Seminar, Grades K-12 ......................................................2 s.h.
PSCI 2120
  Cultural Diversity in America .........................................................0-4 s.h.
PSYC 3320
  Adolescent Development ..................................................................4 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.
Track Requirements ........................................................................49 s.h.
Secondary Education Minor .........................................................40-44 s.h.
Minimum to Complete Licensure Program ..................................131 s.h.