Teacher Education - CHEMISTRY

Tennessee teaching licensure (Grades 6-12) is available with modifications to the Chemistry major 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
Chemistry 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.)

**Human Culture**  
In addition to satisfying the language requirement:  
PSCI 2120  
Cultural Diversity in America ...................................................... 4 s.h.

**General Science and Physical Science Core**  
BIOL 2110  
General Biology I ........................................................................ 4 s.h.
CHEM 1120  
General Chemistry II .................................................................... 4 s.h.
GEOG 2010  
Physical Geography ..................................................................... 3 s.h.
PHYS 2210  
General Physics I ........................................................................ 4 s.h.

**BS in Chemistry Major Requirements for Teaching Licensure**  
CHEM 2110  
Organic Chemistry I ..................................................................... 4 s.h.
CHEM 2120  
Organic Chemistry II .................................................................... 4 s.h.
CHEM 3000  
Analytical Chemistry I .................................................................. 4 s.h.
CHEM 3200  
Analytical Chemistry II ................................................................ 4 s.h.
CHEM 4000  
Physical Chemistry I ..................................................................... 5 s.h.
Interdepartmental Science Seminar ............................................  2 s.h.

*Choose from the following courses* ........................................... 4 s.h.  
MATH 2360  
Calculus II (4 s.h.)
CHEM 4200  
Physical Chemistry II (4 s.h.)
PHYS 2220  
General Physics II (4 s.h.)

**NOTE:** Students in the Chemistry Secondary Education track are not required to take CHEM 4930 or 4990, instead they are required to take the PRAXIS exams for Secondary Education licensure in Chemistry.

**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 .............................................................. 42 s.h.
Secondary Education Minor .................................................. 40-44 s.h.
Electives ............................................................................. 2 s.h.
Minimum to Complete Licensure Program  ......................... 126 s.h.