

**EAST CENTRAL UNIVERSITY**  
**CHEMISTRY—TEACHER CERTIFICATION CONCENTRATION 0101**  
2025-26 Catalog Year

**Requirements for Bachelor's Degrees**

- 30 hours at ECU
- 60 hours at senior level college
- 40 hours upper level courses
- OSRHE computer proficiency requirement

**I. General Education 40 hours**

17 hours (BIOL 1114, CHEM 1114, COMM 1113, MATH 1513, and PSYCH 1113) counted in the major. Demonstrate novice high competency in a foreign language or complete a Foreign Language or American Language course with a C or higher.

**II. Major in Chemistry- Teacher Certification Concentration 30 hours**

**A. Required Core Courses 20 hours**

- CHEM 1114 General Chemistry I
- CHEM 1214 General Chemistry II
- CHEM 3114 Organic Chemistry I
- CHEM 3214 Quantitative Analysis I
- CHEM 4114 Organic Chemistry II

**B. Required for Concentration in Teacher Certification 3 hours**

- B/C/P 4113 Methods of Teaching Biological and Physical Science

**C. Required Chemistry Electives 7 hours**

Seven hours chemistry electives

**III. Related Work 41-43 hours**

- BIOL 1114 General Biology
- BIOL 1314 General Zoology
- BIOL 2184 Human Anatomy
- BIOL 3634 Human Physiology
- COMM 1113 Fundamentals of Human Communication
- MATH 1513 College Algebra † OR MATH 2825 Calculus and Analytical Geometry I
- PHYS 1114 General Physics I
- PHYS 1214 General Physics II
- PHYS 1314 Astronomy
- PSYCH 1113 General Psychology

**IV. Minor (Required)**

Professional Education is used as the minor and no other minor is required.

**V. Professional Education 30 hours**

- EDUC 2402 Survey of Excep Child
- PSYCH 3463 Child and Adolescent Psych.

- EDUC 2012 Foundations of Educ
- EDUC 2361 Foundations of Educ Technology
- EDUC 2211 Field Experience I
- EDPSY 3513 Educ Psych
- EDUC 3001 Field Experience II
- EDUC 4052 Effective Teaching in Secondary Education
- EDUC 4611 Field Experience III
- EDUC 4632 Education Technology Integration Strategies
- EDUC 4262 Student Teaching Seminar I
- EDUC 4282 Student Teaching Seminar II
- EDUC 4974 Sup Student Tchg Secondary School
- EDUC 4974 Sup Student Tchg Secondary School

**VI. Total Hours Required      124-126 hours**

**VII. Special Requirements**

† With department approval, students may omit MATH 1513 and/or MATH 1713 and begin with MATH 2825