Secondary Education
BSEd Science-Chemistry Emphasis

General Education Requirements
B.S.Ed. degree candidates must complete the following General Education courses (http://bulletin.umsl.edu/generaleducationrequirements) required by the College of Education and the Missouri Department of Elementary and Secondary Education.

Core Areas:
First Year Writing
ENGL 1100 First-Year Writing (MOTR ENGL 200) 3
or HIST 1111 Reacting to the Past
Math Proficiency (requirement varies by program)
MATH 1030 College Algebra (MOTR MATH 130) 3
or MATH 1020 Contemporary Mathematics (MOTR MATH 120)
or MATH 1021 Choice and Chance
or MATH 1025 Geometry in the Real World
or MATH 1045 PreCalculus (MOTR MATH 150)
Communication Proficiency
EDUC 2222 Interpretation: Connecting Audiences and Meaning 3
or COMM 1040 Introduction to Public Speaking (MOTR COMM 110)
Information Literacy
ED TECH 2230 Information Literacy 3
American History or Government
HIST 1001 American Civilization to 1865 (MOTR HIST 101) 3
or HIST 1002 American Civilization 1865 to Present (MOTR HIST 102)
Explore Areas:
Humanities and Fine Arts
Three courses from two of the following fields: art, foreign language, music (excluding applied music), philosophy, theater, dance, and literature. 9
Social Science
ED PSY 2212 Child and Adolescent Development 3
POL SCI 1100 Introduction to American Politics (MOTR POSC 101) 3
One additional 1000-2000 level course in Social Science Explore Area 3
Math and Life/Natural Sciences
BIOL 1012 General Biology (MOTR BIOL 100) 3
PHYSICS 1001 How Things Work (MOTR PHYS 100) 3
One additional 1000-2000 level course in Math and Life/Natural Sciences Explore Area 3
University Requirement
ENGL 3100 Junior-Level Writing 3
Total Hours 45
Note All of the courses above must be a minimum of 2 semester hours.

Program Requirements
B.S.Ed. and B.A. degrees with certification candidates must complete the following courses:

Introduction to Education
EDUC 1000 (Introduction to Education) 1
EDUC 1001 1
Level I: Exploring Education as a Profession
TCH ED 2000 Becoming a Professional Educator 1
TCH ED 2001 Early Clinical Experience: Schools 1
TCH ED 2209 Foundations of Teaching in American Schools 2
Level II: Analyzing the Nature and Process of Education
ED PSY 3312 Psychology of Learning, Instruction, and Assessment 3
ED TECH 3135 Technology for Educators 1
SPEC ED 3318 Inclusive Classrooms 3
TCH ED 3001 Mid-Level Clinical Experience: Diverse Learners 1
TCH ED 3310 Introduction to Methods of Teaching 3
TCH ED 4391 Literacy for Adolescent Learners in Content Areas 3
Level III: Synthesizing Theory and Practice in Education
SEC ED 4XXX Curriculum and Methods of Teaching (specific subject area) 3
SEC ED 4989 Practicum I: Site-Based Experience 3
SEC ED 4990 Practicum II: Site-Based Experience 12
Total Hours 38

Attention Education majors
Professional Education courses must be completed with a grade point average of 2.5 and no grade lower than a C.

Beginning with those students graduating in May, 2017 and receiving teacher certification, the Missouri Department of Elementary and Secondary Education requires a 3.0 GPA in professional education courses, a 3.0 GPA in the teaching content field, and a 2.75 overall GPA.

Students must pass the relevant exit test to receive the B.S.Ed. degree.

Emphasis Areas:
B.S.Ed. candidates must complete 30 to 50 hours of specific subject requirements in one of the following fields: English, French, Spanish, mathematics, biology, chemistry, physics, or social studies. Additionally, students may complete teacher certification in art or music after completing a BFA.

B.S. Ed. in Secondary Education with Emphasis in Chemistry
The B.S. Ed. is a professional education degree designed for students who wish to pursue a teaching career in secondary schools. Much of the discipline-specific coursework parallels the B.A. or B.S. degree in
the discipline; however, the Missouri Department of Elementary and Secondary Education (DESE) requires specific coursework for teacher certification. Therefore, students interested in the B.S. Ed. should contact the advising office (OASIS) 314-516-5937 in the College of Education for discipline-specific requirements. Note: To obtain teaching certification, DESE requires a 3.0 GPA in the discipline and professional education coursework, as well as a 2.75 GPA overall.

B.A. or B.S. in Chemistry with Master’s Level Coursework for Secondary Teacher Certification

In addition to the B.S. Ed., students may opt to complete a B.A. or B.S. degree in their discipline as an undergraduate, followed by admission to the Graduate School for Master’s level teaching certification. The College of Education has a one-year accelerated program for post-graduate certification called Teach in 12, or students can choose a traditional path to certification. Graduate coursework for certification can apply towards a Master’s Degree in Secondary Education, with additional coursework. Students interested in Master’s Level teacher certification should contact the advising office (OASIS) 314-516-5937 in the College of Education. Note: To obtain teaching certification, DESE requires a 3.0 GPA in the discipline and professional education coursework, as well as a 2.75 GPA overall.