

Secondary Education BSEd Science-Chemistry Emphasis

The Bachelor's of Science in Secondary Education degree prepares students to teach in secondary school settings, grades 9-12. This program requires the selection and completion of required coursework in a specific content area.

University General Education and Graduation Requirements

B.S.Ed. degree candidates must complete the following General Education (<http://bulletin.umsl.edu/generaleducationrequirements/>) requirements (<http://bulletin.umsl.edu/generaleducationrequirements/>) and Graduation requirements (<http://bulletin.umsl.edu/undergraduatestudy/#graduationrequirements>) of the University as outlined in this Bulletin.

The courses listed below fulfill General Education requirements and best prepare students for advanced education coursework and licensure exams.

Core Areas:

First Year Writing		
ENGL 1100	First-Year Writing (MOTR ENGL 200)	3
Communication Proficiency		
EDUC 2222	Interpretation: Connecting Audiences and Meaning	3
or COMM 1040	Introduction to Public Speaking (MOTR COMM 110)	
Math Proficiency		
MATH 1020	Contemporary Mathematics (MOTR MATH 120)	3
or MATH 1030	College Algebra (MOTR MATH 130)	
Information Literacy		
ED TECH 2230	Information Literacy	3
American History or Government		
POL SCI 1100	Introduction to American Politics (MOTR POSC 101)	3
or HIST 1001	American Civilization to 1865 (MOTR HIST 101)	
Humanities and Fine Arts		
Choose any 9 hours from approved fields.		9
Social Science		
Choose any 9 hours. At least one course must meet the cultural diversity requirement		9
Math and Life/Natural Sciences		
Choose any 9 hours.		9
Junior Level Writing		
ENGL 3100	Junior-Level Writing	3
Total Hours		45

Program Requirements

All students in the B.S.Ed. in Secondary Education program are required to take the following Teacher Education courses. Each student must also select a content area and complete the required courses and certification assessments for that area as specified by the Missouri Department of Elementary and Secondary Education.

Grade Requirement

Professional Education courses must be completed with a grade of C or better (courses completed with a grade of C- or below must be retaken).

GPA Requirement

Beginning with those students graduating in May 2017 who will also receive teaching 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.

Assessment Requirement

Students must pass the required DESE certification assessments to receive the B.S.Ed. degree.

Preparing for the Teacher Education Program

The following courses must be completed prior to applying for admission to the teacher education program:

TCH ED 1000	Building Community, Culture, and Learning in Education	1
TCH ED 1001	Early Clinical Experience: Community Agency	1
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
ED PSY 2212	Child and Adolescent Development	3
Total Hours		9

Teacher Education Program

The following courses are completed after acceptance into the teacher education program:

TCH ED 3001	Mid-Level Clinical Experience: Diverse Learners	1
ED PSY 3312	Psychology of Learning, Instruction, and Assessment	3
TCH ED 3310	Introduction to Methods of Teaching	3
SPEC ED 3318	Inclusive Classrooms	3
TCH ED 4391	Literacy for Adolescent Learners in Content Areas	3
SEC ED 4880	Writing for Teachers ¹	3
Total Hours		16

¹ SEC ED 4880 is not required for foreign language emphasis areas.

In addition to the above courses, students must complete 30-50 hours of required coursework in one specific content area (English, French K-12, Spanish K-12, mathematics, biology, chemistry, physics, or social studies), as well as the appropriate methods course:

SEC ED 4011	The Curriculum and Methods of Teaching History and Social Studies	3
SEC ED 4240	Curriculum and Methods of Teaching Physical Sciences	3
SEC ED 4589	Curriculum and Methods of Teaching Foreign Languages	3
SEC ED 4646	The Curriculum and Methods of Teaching Math	3
SEC ED 4885	The Curriculum and Methods of Teaching English	3
SEC ED 4985	Curriculum and Methods of Teaching Life Sciences	3

- Use learning science principles to design, implement, and evaluate curriculum based on learning standards.
- Foster effective working relationships with students, school colleagues, families, and community members to enhance student learning and well-being.
- Design and establish a safe, inclusive, and respectful learning environment that nurtures the intellectual, social, and personal development of all students.
- Use equitable frameworks and inclusive practices to create a variety of instructional and assessment opportunities adapted to diverse learners to encourage all students' critical thinking, problem solving, and performance skills.

The program will culminate in the following practicum courses:

SEC ED 4989	Practicum I: Site-Based Experience	3
SEC ED 4990	Practicum II: Site-Based Experience	12

Total Credit Hours: 120 Minimum

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.*

Learning Outcomes

Upon completion of the program, graduates will be able to:

- Continually reflect on professional growth to improve student learning outcomes/enhance student learning.
- Integrate technology to create meaningful student learning within the context of a global digital society.
- Apply content and pedagogical knowledge to create authentic and deep learning experiences.