

Education (BA) with an Emphasis in Secondary Chemistry

This program is offered by the School of Education/Department of Teacher Education and is only available at the St. Louis main campus.

Program Description

The bachelor of education program provides candidates with a strong knowledge base of content, child and adolescent development and current research that supports best practices in education. This program is centered around contemporary design-based research principles with a focus on how students learn within inquiry-based environments.

This undergraduate degree program is designed to provide the foundation for teacher preparation leading to initial Missouri teacher certification and is approved by the Missouri Department of Elementary and Secondary Education.

The bachelor of education program is accredited by the Council for the Accreditation of Educator Preparation (CAEP).

Learning Outcomes

- Education candidates will demonstrate knowledge of the subject matter, knowledge of the learner and knowledge of pedagogy based on inquiry and scholarship. This includes knowing content that supports conceptual understanding, applying tools of inquiry to construct meaningful learning experiences, identifying developmental factors in student learning and understanding theoretical principles of effective instruction to plan learning experiences.
- Education candidates will incorporate multiple assessment and instructional strategies to support effective educational practices based on research and theory. This involves designing curriculum based on students' prior knowledge, learning styles, strengths and needs, understanding and uses a range of instructional strategies, using a variety of communication modes, media and technology to support student learning and employing a variety of formal and informal assessments to monitor learning and modify instruction.
- Education candidates will reflect on the roles educators take as leaders of change through collaboration with colleagues, students and families in schools and communities will reflect on the roleful learning

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- PHYS 1710 College Physics I (3 hours)
and PHYS 1711 College Physics I: Lab (1 hour)
or
PHYS 1720 College Physics II (3 hours)
and PHYS 1721 College Physics II: Lab (1 hour)
or
PHYS 2030 University Physics I (3 hours)
and PHYS 2031 University Physics I: Lab (1 hour)
or
PHYS 2040 University Physics II (3 hours)
and PHYS 2041 University Physics II: Lab (1 hour)
- SCIN 1100 Earth Science and the Environment (3 hours)
and SCIN 1101 Earth Science and the Environment: Lab (1 hour)
or
SCIN 1470 Earth and Universe (3 hours)
and SCIN 1471 Earth and Universe: Lab (1 hour)
or
SCIN 1600 Physical Geology (3 hours)
and SCIN 1601 Physical Geology: Lab (1 hour)
- BIOL 3200 Ecology (3 hours)
and BIOL 3201 Ecology: Lab (1 hour)

*Required certification coursework and electives to total minimum degree requirements aligned with the DESE matrix. Students may pursue a dual degree with a BS in science and must fulfill those requirements as well.

Admission to the Major

Students may be fully admitted to the major when the following criteria have been met:

- A grade of B or better in EDUC 2800 Foundations in Education.
- A grade of B or better in EDUC 2000 Beginning Practicum in Education.
- A completed Candidate Responsibility Form.
- A departmental GPA of 3.0, based on all EDUC courses taken.

Admission to Teacher Certification

Students declaring Education as a degree major will pursue initial teacher certification as part of their degree. A Program of Study (POS) is designed to meet the Global Citizenship Program requirements, degree requirements, and certification requirements of both the Missouri Department of Elementary and Secondary Education (DESE) and Webster University.

Candidates must meet the following requirements for formal acceptance in the initial teacher certification program.

- Written Program of Study (POS) outlining the degree and program requirements.
- Completion of a college Composition course with a grade of B- or better.
- Completion of a college Mathematics course with a grade of B- or better.
- Completion of EDUC 2800 Foundations in Education with a grade of B or better.
- Completion of EDUC 2000 Beginning Practicum in Education with a grade of B or better.
- Successful completion of Passport Tasks 1-5.
- Minimum professional GPA of 3.0, and Content GPA (if applicable) of 3.0. This must be maintained throughout the program.

Note: Grades of C- or above are eligible for Certification requirements.

Candidates must be admitted to teacher certification in order to take specified EDUC or CMAT methods courses.

Students who have transferred in all these course requirements should apply for entrance to the Teacher Certification program when they first meet with an academic advisor in the department.

Background Checks

Students are required to obtain various annual background checks prior to field experiences. The state requires current fingerprint clearance prior to issuing the teaching certificate.

State Assessment

To obtain teaching licensure in Missouri, students are required to complete a number of state assessments. State-required assessments are administered by designated agencies, and students are required to pay all associated fees. All state assessments are administered in a digital format. Students must pass the state-required content assessment examinations prior to apprentice teaching.

Practicum

Students must complete a 3000-level practicum in a classroom setting appropriate to their intended content area and accompanying practicum seminar with a grade of B or better. Practicums require 45-135 hours involving observation, lesson planning and teaching during daytime school hours. To enroll in a practicum, students must submit an application by September 15 for a spring placement and by February 15 for a fall placement. No late applications will be accepted. Candidates must meet with the Coordinator of Field Placement prior to applying for practicum.

Apprentice Teaching

Apprentice teaching and the accompanying apprentice teacher seminar are required for all initial certifications. To enroll in apprentice teaching, students must submit an application by September 15 for a spring placement and by February 15 for a fall placement. No late applications will be accepted.

Prior to apprentice teaching students must have:

- Met all course and departmental assessment requirements, including formal acceptance to teacher certification status.
- Successfully completed practicum and practicum seminar with a grade of B or better.
- Passed the state-required content assessment examination.

Apprentice Teaching placements are made by the Field Experience Office. Placements will be arranged with the St. Louis City, St. Louis County, St. Charles County and Jefferson County School Districts along with private and independent schools. All candidates for certification must complete either their practicum or apprentice teaching in a diverse setting.