## Secondary Education BSEd Science-Biology 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 requirements and Graduation requirements 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) |
| Communication Proficiency |  |
| EDUC 2222 | Interpretation: Connecting Audiences and Meaning |
| or COMM 1040 | Introduction to Public Speaking (MOTR COMM 110) |
| Math Proficiency |  |
| MATH 1020 | Contemporary Mathematics (MOTR MATH 120) |
| or MATH 1030 | College Algebra (MOTR MATH 130) |
| Information Literacy |  |
| ED TECH 2230 | Information Literacy |
| American History or Government |  |
| POL SCI 1100 | Introduction to American Politics (MOTR POSC 101) |
| 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
9 diversity requirement
Math and Life/Natural Sciences
Choose any 9 hours.

## Junior Level Writing

ENGL 3100
Junior-Level Writing
Total Hours

## 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 <br> Learning in Education | 1 |
| :--- | :--- | :--- |
| TCH ED 1001 | Early Clinical Experience: <br> 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 <br>  <br> American Schools | 2 |
| ED PSY 2212 | Child and Adolescent Development | 3 |
| Total Hours |  | $\mathbf{9}$ |

## Teacher Education Program

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

| TCH ED 3001 | Mid-Level Clinical Experience: Diverse Learners |  |
| :---: | :---: | :---: |
| ED PSY 3312 |  |  |
| 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 |  | 13 |
| 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
SEC ED 4240 Teaching History And Social Studies

SEC ED 4240
Curriculum and Methods of
Teaching Physical Sciences

| 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 |
| 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 Biology

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 Biology 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:

- Demonstrate professionalism through (a) reflective practice for professional growth, (b) effective communication and collaboration, and (c) commitment to upholding ethical and professional standards.
- Evaluate, design, and implement curriculum, instruction, and assessment that apply advanced understanding of (a) content and pedagogical knowledge, (b) learning science principles, and (c) equitable frameworks and inclusive practices.
- Integrate technologies to create meaningful student learning in the context of a (a) digital and (b) global society.
- Design and implement a supportive, inclusive, and culturally responsive classroom environment that nurtures the intellectual, social, and emotional development of all students.
- Partner with families and communities to develop relationships and build networks of support to enhance student learning and well-being.


## Sample Four Year Plan

First Year

| Fall | Hours | Spring | Hours |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ENGL 1100 |  | 3 COMM 1040 |  | 3 |  |
| MATH 1030 |  | 3 EXPLORE - <br> Humanities and Fine Arts |  | 3 |  |
| BIOL 1012 |  | 3 MATH 1035 |  | 2 |  |
| HIST 1001 or 1002 |  | 3 CHEM 1111 |  | 5 |  |
| TCH ED 1000 |  | 1 TCH ED 1001 |  | 1 |  |
| EXPLORE - <br> Humanities and Fine Arts |  | 3 TCH ED 2000 |  | 1 |  |
|  |  | 16 |  | 15 |  |
| Second Year |  |  |  |  |  |
| Fall | Hours | Spring | Hours | Summer | Hours |
| ED TECH 2230 |  | 3 BIOL 1831 |  | 5 TCH ED 3001 | 1 |
| BIOL 1821 |  | 5 ED PSY 2212 |  | 3 EXPLORE - Social Sciences | 3 |
| TCH ED 2001 |  | 1 EXPLORE - Social Sciences ${ }^{1}$ |  | 3 |  |
| TCH ED 2209 |  | 2 EXPLORE - <br> Humanities and Fine Arts |  | 3 |  |
| GEOL 1001 |  | 3 |  |  |  |
| EXPLORE - Social <br> Sciences |  |  |  |  |  |
|  |  | 14 |  | 14 | 4 |
| Third Year |  |  |  |  |  |
| Fall | Hours | Spring | Hours |  |  |
| ENGL 3100 or 3160 |  | 3 SEC ED 4985 |  | 3 |  |
| BIOL 2012 |  | 3 BIOL 3302 |  | 3 |  |
| BIOL 2102 |  | 3 BIOL 3622 |  | 3 |  |
| BIOL 2103 |  | $\begin{aligned} & 2 \text { PHYSICS } 1011 \\ & \text { \& 1011L } \end{aligned}$ |  | 4 |  |
| TCH ED 3310 |  | 3 BIOL 2402 or 3802 |  | 3 |  |
|  |  | 14 |  | 16 |  |
| Fourth Year |  |  |  |  |  |
| Fall | Hours | Spring | Hours |  |  |
| TCH ED 4391 |  | 3 SEC ED 4990 |  | 12 |  |
| SEC ED 4880 |  |  |  |  |  |
| SPEC ED 3318 |  | 3 |  |  |  |
| PHIL 3380 |  | 3 |  |  |  |
| SEC ED 4989 |  | 3 |  |  |  |
|  |  | 12 |  | 12 |  |

Total Hours: 117
1
Course should also satisfy the Cultural Diversity Requirement
PLEASE NOTE: This plan is an example of what a four year plan could look like for a typical student. Placement exam scores in math as well as the completion of coursework may change the plan. It should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor. All requirements are subject to change.

