

# Secondary Education

## Courses

### ***SEC ED 2010 Introduction to Inquiry Approaches to STEM Education (STEP I): 1 semester hour***

Same as CHEM 2010, PHYSICS 2010, MATH 2010, and BIOL 2010. Prerequisites: Concurrent enrollment BIOL 1821, BIOL 1831, CHEM 1111, CHEM 1121, PHYSICS 2111, PHYSICS 2112, MATH 1800, or MATH 1900 or have a declared STEM major. Students who want to explore teaching careers become familiar with lesson plan development by writing, teaching and observing lessons in a local school class. Students build and practice inquiry-based lesson design skills and become familiar with and practice classroom management in the school setting. As a result of the STEP I experiences students should be able to decide whether to continue to explore teaching as a career and ultimately finishing the remainder of the WE TEACH MO curriculum leading to teacher certification. The classroom observations and teaching represent a major field component and requires at least one two hour block of free time during the school day once a week.

### ***SEC ED 2011 Designing Inquiry-Based STEM Experiences (STEP II): 1 semester hour***

Same as CHEM 2011, PHYSICS 2011, MATH 2011, and BIOL 2011. Prerequisites: BIOL 2010, CHEM 2010, PHYSICS 2010, MATH 2010, or SEC ED 2010. Students explore teaching careers, become familiar with STEM school setting through observing and discussing the school environment and by developing and teaching inquiry-based lessons.

### ***SEC ED 4011 The Curriculum and Methods of Teaching History and Social Studies: 3 semester hours***

Prerequisites: Admission to the Teacher Education Program and completion of Level II requirements. A study of the scope and sequence of history and social studies courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. May not count toward history hours required for history major. Must be completed prior to student teaching. This course must be completed in residence. Not available for graduate credit. Concurrent enrollment in SEC ED 4989 is required.

### ***SEC ED 4011T The Curriculum and Methods of Teaching History and Social Studies for Teachers in Residence: 3 semester hours***

Prerequisites: Admission to Teach Residency program. This course for teachers in residence studies the scope and sequence of history and social studies courses in the secondary school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation.

### ***SEC ED 4013 United States History for the Secondary Classroom: 3 semester hours***

Prerequisites: Admission to the Teacher Education Program. TCH ED 3310 or consent of the instructor. This course is required for Social Studies certification. Adapts the themes and subject matter of American history to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting themes of American history, on expanding bibliography, and on choosing methods of inquiry for use in an interactive classroom. Cannot be counted towards the minimum 39-hour history major requirement, but can be counted towards the 45 hour maximum and for Social Studies certification. Not available for graduate credit.

### ***SEC ED 4090 American Government for the Secondary Classroom: 3 semester hours***

Same as POL SCI 4090. Prerequisites: POL SCI 4090/ SEC ED 4090 must be taken concurrently with SEC ED 4011 except with special consent of the School Studies Coordinator. Adapts the themes and subject matter of American Government to the secondary classroom and trains teachers in techniques particularly designed to maximize the use of primary sources, foster critical inquiry, and encourage knowledge of subject matter. Particular emphasis will be placed on defining the broad and connecting methods of inquiry for use in an interactive classroom. Can be counted towards the Political Science major requirement, but not the American Politics subgroup. Counts towards Social Studies certification. Not available for graduate credit.

### ***SEC ED 4240 Curriculum and Methods of Teaching Physical Sciences: 3 semester hours***

Prerequisites: TCH ED 3310 or TCH ED 5310 and a near major in the subject area. A study of the scope and sequence of the physical science courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of science. Concurrent enrollment in SEC ED 4989 is required. This course must be completed in residence.

### ***SEC ED 4589 Curriculum and Methods of Teaching Foreign Languages: 3 semester hours***

Same as FGN LANG 4589. This course is a study of the scope and sequence of the foreign language courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course emphasizes second language acquisition and socio-cultural theories of learning which undergird the approach, examination and analysis of foreign language teaching practices. Attention is also directed toward learning the techniques and research of the scholar in the field of foreign language. To be taken concurrently with Practicum I, SEC ED 4989.

### ***SEC ED 4589T Curriculum and Methods of Teaching Foreign Languages for Teachers in Residence: 3 semester hours***

Prerequisites: Admission to Teach Residency program. This course for teachers in residence is a study of the scope and sequence of the foreign language courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course emphasizes second language acquisition and sociocultural theories of learning.

### ***SEC ED 4646 The Curriculum and Methods of Teaching Math: 3 semester hours***

Prerequisites: Admission to the Teacher Education Program and completion of Level II requirements. Must be taken concurrently with SEC ED 4989. A study of the scope and sequence of the mathematics courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. Attention is also directed toward learning the techniques and research tools of the scholar in the field of mathematics. To be taken prior to student teaching. This course must be completed in residence. Not available for graduate credit.

### ***SEC ED 4646T The Curriculum and Methods of Teaching Math for Teachers in Residence: 3 semester hours***

Prerequisites: Admission to Teach Residency program. This course for teachers in residence studies the scope and sequence of the mathematics courses in the secondary school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation.

**SEC ED 4880 Writing for Teachers: 3 semester hours**

Prerequisite: ENGL 3090 or junior level English. Writing for Teachers is an English-education course that supports writing across the curriculum for both pre-service English and content area teachers. Teacher candidates learn writing theories and literacy strategies to help their future students construct meaning from their discipline. The course works best for those who are completing level II or beginning level III education courses. The course counts toward the Certificate in Writing.

**SEC ED 4885 The Curriculum and Methods of Teaching English: 3 semester hours**

Prerequisites: Completion of Level II requirements and a near major in English. A study of the scope and sequence of the English courses in the school curriculum with emphasis on the selection and organization of materials and methods of instruction and evaluation. The course prepares students for reflective teaching by relating course readings to field experiences and theory to practice. To be taken prior to student teaching and concurrently with Practicum I, SEC ED 4989.

**SEC ED 4985 Curriculum and Methods of Teaching Life Sciences: 3 semester hours**

Prerequisites: TCH ED 3310 (undergraduate students) or TCH ED 5310 (graduate students). This course studies the scope and sequence of the life science courses in the school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. The analysis of teaching and learning in secondary school classrooms will be integrated into classroom activities and discussions. Concurrent enrollment in SEC ED 4989 is required. Admission to the Teacher Education Program is required.

**SEC ED 4985T Curriculum and Methods of Teaching Life Sciences for Teachers in Residence: 3 semester hours**

Prerequisites: Admission to Teach Residency program. This course for teachers in residence studies the scope and sequence of the life science courses in the secondary school curriculum, with emphasis on the selection and organization of materials and methods of instruction and evaluation. The analysis of teaching and learning in secondary school classrooms is integrated into classroom activities and discussions.

**SEC ED 4989 Practicum I: Site-Based Experience: 3 semester hours**

Prerequisites: Successful practicum application. This course is a two-day per week intensive, collaborative professional experience in inclusive K-12 settings with emphasis in high school classrooms. This course emphasizes improving student learning outcomes, data-driven instruction, classroom management, and video use and analysis. Practicum I includes mandatory on-site and on-campus seminars which could be scheduled outside of normal class time. Students are required to take the appropriate DESE-mandated content exam during Practicum I.

**SEC ED 4990 Practicum II: Site-Based Experience: 12 semester hours**

Prerequisites: Successful completion of Practicum I. This course is a four-day per week intensive, collaborative professional experience in inclusive K-12 settings with emphasis in high school classrooms. This course emphasizes improving student learning outcomes, data-driven instruction, classroom management, and video use and analysis. Practicum II includes mandatory on-site and on-campus seminars which could be scheduled outside of normal class time. Students are required to take the appropriate DESE-mandated content exam during Practicum II.

**SEC ED 4992 Practicum I: Site-Based Experience in Music: 3 semester hours**

Prerequisites: Accepted practicum application. This course is a one-day per week (or equivalent) intensive, collaborative professional experience in a K-12 music classroom setting. This course emphasizes improving student learning and musicianship, data-driven instruction, classroom management, and reflection. Practicum I includes regular, mandatory Music Department seminar attendance outside of normal class time on campus. Students are required to take the appropriate DESE-mandated content exam during Practicum I.

**SEC ED 4993 Practicum II: 12-Week Site-Based Experience in Music: 9 semester hours**

Prerequisites: Successful completion of Practicum I and approval of the Coordinator of Music Education. This course is a five-day per week intensive, collaborative professional experience in diverse K-12 settings with students, emphasizing improving student learning and musicianship, data-driven instruction, classroom management, and reflection. This course includes weekly, mandatory Music Department seminar attendance outside of normal class time on campus. This course must be taken concurrently with SEC ED 4994.

**SEC ED 4994 Practicum II: 4-Week Site-Based Experience in Music: 3 semester hours**

Prerequisites: Successful completion of Practicum I and approval of the Coordinator of Music Education. This course is a five-day per week intensive, collaborative professional experience in diverse K-12 settings with students, emphasizing improving student learning and musicianship, data-driven instruction, classroom management, and reflection. This course includes weekly, mandatory Music Department seminar attendance outside of normal class time on campus. This course must be taken concurrently with SEC ED 4993.

**SEC ED 4995 Practicum I: Site-Based Experience in Art: 3 semester hours**

Prerequisites: Accepted Practicum application. This course is a two-day per week intensive, collaborative professional experience in a K-12 art classroom setting. This course emphasizes improving student learning outcomes, data-driven instruction, classroom management, and video use and analysis. Practicum I includes mandatory on-site and on-campus seminars which could be scheduled outside of normal class time. Students are required to take the appropriate DESE-mandated content exam during Practicum I.

**SEC ED 4996 Practicum II: 16-Week Site-Based Experience in Art: 12 semester hours**

Prerequisites: Successful completion of Practicum I requirements. This course is a four-day per week intensive, collaborative professional experience in inclusive K-12 settings with emphasis in art classrooms. This course emphasizes improving student learning outcomes, data-driven instruction, classroom management, and video use and analysis. Practicum II includes mandatory on-site and on-campus seminars which could be scheduled outside of normal class time. Practicum II includes the completion of required State certification assessments.

**SEC ED 4997 Practicum II: 4-Week Site-Based Experience in Art: 3 semester hours**

Prerequisites: Successful completion of Practicum I requirements. This course is a four-day-per-week intensive, collaborative professional experience in inclusive K-12 settings with emphasis in art classrooms. This course emphasizes improving student learning outcomes, data-driven instruction, classroom management, and video use and analysis. Practicum II includes mandatory on-site and on-campus seminars which could be scheduled outside of normal class time. Students are required to take the appropriate DESE-mandated content exam during Practicum II. This course must be taken concurrently with SEC ED 4996.

**SEC ED 5000 Teacher Practicum Research: 1 semester hour**

Prerequisites: Admission into Student Teaching. Students conduct research on their own teaching in order to modify their instruction, curriculum and assessment practices. Concurrent enrollment in SEC ED 4990 is required.

**SEC ED 5989 Practicum I: Site-Based Experience: 2-3 semester hours**

Prerequisites: Director of Clinical Experience approval. This course is a 1-2 day per week intensive professional development experience working in K-12 settings with emphasis in high school classrooms. On-site activities include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Some methods course assignments may be completed during the practicum day at school sites. Activities to acquire research skills are included.

**SEC ED 5990 Practicum II: Site-Based Experience: 8 semester hours**

Prerequisites: Successful completion of Practicum I and Director of Clinical Experience approval. This course is a clinical teaching experience 4 days per week in a high school setting. Teacher candidates spend time in schools engaged in various capacities to improve student learning within small group instruction, whole class teaching, lesson planning and special programs to demonstrate proficiency on all professional teacher standards. Teacher candidates collect data for a research project.

**SEC ED 5992 Practicum I: Graduate Site-Based Experience in Music: 2 semester hours**

Prerequisite: Coordinator of Music Education approval. This course provides clinical experience in the elementary general music classroom setting. Students gain first-hand experience in preparing and teaching lessons, classroom management, and receiving mentoring from the clinical teachers.

**SEC ED 5993 Practicum II: Graduate Site-Based Experience in Music, 12 Week Placement: 6 semester hours**

Prerequisite: Coordinator of Music Education approval. This course provides a twelve-week intensive clinical teaching experience in music. The clinical experience takes place 5 days per week for a minimum of 12 weeks at one location, under university supervision. This course includes a mandatory weekly Music Department seminar and must be taken concurrently with SEC ED 5994.

**SEC ED 5994 Practicum II: Graduate Site-Based Experience in Music, 4 Week Placement: 2 semester hours**

Prerequisite: Coordinator of Music Education approval. This course provides a four-week intensive clinical teaching experience in music. The clinical experience takes place 5 days per week for a minimum of 4 weeks at one location, under university supervision. This course includes a mandatory weekly Music Department seminar and must be taken concurrently with SEC ED 5993.

**SEC ED 5995 Practicum I: Site-Based Experience in Art: 2 semester hours**

Prerequisites: Coordinator of Art Education approval. This course is a 1-2 day per week intensive professional development experience working in K-12 settings with emphasis in art classrooms. On-site activities include partnering with the classroom teacher in all areas of instruction, assessment, and classroom management. Some methods course assignments may be completed during the practicum day at school sites. Activities to acquire research skills are included. This course must be taken concurrently with ART ED 5273.

**SEC ED 5996 Practicum II: Site-Based Experience in Art: 8 semester hours**

Prerequisites: Successful completion of Practicum I and Coordinator of Art Education approval. This course is a clinical teaching experience 4 days per week in art classrooms. Teacher candidates spend time in schools engaged in various capacities to improve student learning within small group instruction, whole class teaching, lesson planning and special programs to demonstrate proficiency on all professional teacher standards. Teacher candidates collect data for a research project.

**SEC ED 6415 Curriculum Leadership in Education: 3 semester hours**

Prerequisites: TCH ED 6030 or consent of instructor. Strategies for developing and implementing up-to-date curriculum. Using current research of innovative programs and new approaches, students will develop skills in analyzing and evaluating content area curriculum according to Common Core and national content standards in order to lead curriculum development in an educational setting.

**SEC ED 6416 Curriculum Design for Educational Programs: 3 semester hours**

Prerequisites: TCH ED 6030, SEC ED 6415 or consent of instructor. Principles of curriculum design and development for a formal or informal educational setting. Students may choose to develop an integrated or differentiated curriculum using the Common Core or national content standards. Compare and contrast curriculum design approaches while connecting curriculum and instruction practices to learner performance.

**SEC ED 6420 Improving Teaching and Learning: 3 semester hours**

Prerequisites: TCH ED 6030, or consent of instructor. Students will learn to improve their teaching effectiveness through the use of various models of instruction that are based on current learning theories and research in teaching methodology to improve the achievement of diverse learners. Focus on inquiry models that prepare educators for effectively teaching the Common Core standards. Prior instructional experience is recommended.

**SEC ED 6431 STEM Instruction in Secondary Education: 3 semester hours**

Prerequisites: TCH ED 6010 and TCH ED 6020; or consent of instructor. This course will integrate related Science, Technology, Engineering and Math (STEM) disciplines through examination, analysis and application of the national science standards (NGSS) for secondary education and scholarly readings. In the course, students will develop STEM curriculum and instruction teaching units that facilitate the learners' construction of scientific understandings.

**SEC ED 6497 Problems: 1-10 semester hours**