



**PHYSICS, GRADES 9-12 – ALTERNATIVE – TEACH FOR AMERICA**

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| EDUCATOR PREPARATION PROGRAM NAME<br><b>UNIVERSITY OF MISSOURI-ST. LOUIS</b> | EDUCATOR PREPARATION PROGRAM CODE<br><b>116118</b> |
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**INSTRUCTIONS**

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

- Certification Requirements:
- Course Number – List the course number(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
  - Course Title – List the course title(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
  - Semester Hours – List the number of semester hours for each specific section. It is possible to use decimals (to the nearest tenth) to indicate partial use of a course to meet a requirement. The total number of semester hours must meet or exceed the minimum required number of semester hours.

Email the completed cover sheet, curriculum matrix, and advising/program information to [DESE.MoSPETransition@dese.mo.gov](mailto:DESE.MoSPETransition@dese.mo.gov) on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or [DESE.MoSPETransition@dese.mo.gov](mailto:DESE.MoSPETransition@dese.mo.gov)

**A. Professional Requirements (Minimum of 26 semester hours)**

| 1. Content Planning and Delivery                                     |               |  |                |
|--|---------------|--|----------------|
|  | Course Number | Course Title   | Semester Hours |
| a. Curriculum and Instructional Planning                             | TCH ED 5310 A | Instructional Design                                 | 1              |
|  | TCH ED 5310 B | Instructional Design                                 | 1              |
|  | SEC ED 4240   | Curriculum and Methods of Teaching Physical Sciences | 3              |
| b. Instructional Strategies and Techniques in Content Area Specialty | SEC ED 4240   | Curriculum and Methods of Teaching Physical Sciences | 3              |
|  | ED TECH 6135  | Tech for Preparing Inquiry-based Teaching            | 1              |
| c. Assessment, Student Data, and Data-Based Decision-Making          | ED PSY 6030A  | Instruction, Learning & Assessment                   | 1              |
|  | SEC ED 5989   | Practicum I: Site Based Experience                   | 2              |
|  | TCH ED 5312   | Teaching Reading in the Content Area                 | 3              |
| d. Strategies for Content Literacy                                   | TCH ED 4391   | Literacy for Adolescent Learners in the Content Area | 3              |
| e. Critical Thinking and Problem Solving                             | TCH ED 5310A  | Instructional Design                                 | 1              |
|  | TCH ED 5310B  | Instructional Design                                 | 1              |
|  | SEC ED 4240   | Curriculum and Methods of Teaching Physical Sciences | 3              |
|  | ED TECH 6135  | Tech for Preparing Inquiry-based Teaching            | 1              |
| f. English Language Learning   | TCH ED 4391   | Literacy for Adolescent Learners in the Content Area | 3              |
|  | TCH ED 5312   | Teaching Reading in the Content Area                 | 3              |
| 2. Individual Student Needs  |               |  |                |
|  | Course Number | Course Title   | Semester Hours |

|  |                      |  |                       |
|--|----------------------|--|-----------------------|
| a. Psychological Development of the Child and Adolescent | ED PSY 6220          | Development of School Aged Students                          | 2                     |
| b. Psychology/Education of the Exceptional Child         | SPC ED 6412A         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6412B         | Psychology of Exceptional Children                           | 1                     |
|  | ED PSY 6220          | Development of School Aged Students                          | 2                     |
|  |                      |  | 1                     |
| c. Differentiated Learning                               | TCH ED 5312          | Teaching Reading in the Content Area                         | 3                     |
| d. Classroom Management                                  | SPC ED 6325          | Advanced Studies in Classroom and Behavior Management        | 3                     |
|  | SPC ED 6412A         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6412B         | Psychology of Exceptional Children                           | 1                     |
| e. Cultural Diversity                                    | SEC ED 6420          | Improving Teaching and Learning                              | 3                     |
|  | TCH ED 6010A         | Examining History, Community and Social Justice in Education | 1                     |
|  | TCH ED 6010B         | Examining History, Community and Social Justice in Education | 1                     |
|  | SPC ED 6412A         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6412B         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6325          | Advanced Studies in Classroom and Behavior Management        | 3                     |
| f. Educational Psychology                                | ED PSY 6220          | Development of School Aged Students                          | 2                     |
|  | ED PSY 6030A         | Instruction, Learning & Assessment                           | 1                     |
|  | SPC ED 6325          | Advanced Studies in Classroom and Behavior Management        | 3                     |
| <b>3. Schools and the Teaching Profession</b>            |                      |  |                       |
|  | <b>Course Number</b> | <b>Course Title</b>  | <b>Semester Hours</b> |
| a. Consultation and Collaboration                        | SPC ED 6412A         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6412B         | Psychology of Exceptional Children                           | 1                     |
|  | SEC ED 5989          | Practicum I: Site Based Experience                           | 2                     |
|  | SPC ED 6325          | Advanced Studies in Classroom and Behavior Management        | 3                     |
| b. Legal/Ethical Aspects of Teaching                     | TCH ED 6010A         | Examining History, Community and Social Justice in Education | 1                     |
|  | TCH ED 6010B         | Examining History, Community and Social Justice in Education | 1                     |
|  | SPC ED 6412A         | Psychology of Exceptional Children                           | 1                     |
|  | SPC ED 6412B         | Psychology of Exceptional Children                           | 1                     |

| 4. Secondary Literacy (Minimum of six semester hours)  |               |  |                |
|--|---------------|--|----------------|
|  | Course Number | Course Title   | Semester Hours |
| a. Reading and Writing in the Content Area   | TCH ED 4391   | Literacy for Adolescent Learners in the Content Area   | 3              |
| b. Instructional Interventions for Students with Reading Deficits  | TCH ED 5312   | Teaching Reading in the Content Area   | 3              |
| <b>Professional Requirements - Total Semester Hours</b>  |               |  | <b>27</b>      |
| B. Field and Clinical Experiences (Minimum of ten semester hours)  |               |  |                |
|  | Course Number | Course Title   | Semester Hours |
| 1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)   | Residency     | During Summer Institute, new Teach for America Corps Members teach 4 weeks in the St. Louis Public Schools summer program under mentorship of a classroom teacher. |                |
| 2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)   | Residency     | Teach For America teachers serve as teacher of record for 2 school years following Summer Institute.   |                |
| 3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)  | Residency     | Teach For America teachers serve as teacher of record for 2 school years following Summer Institute.   |                |
| <b>Field and Clinical Experiences - Total Semester Hours</b>   |               |  | <b>N/A</b>     |
| C. Physics Content Knowledge Area (Minimum of 35 semester hours) <i>NOTE: Alternative certification individuals earn passing scores on the appropriate Missouri Content Assessments prior to beginning UMSL's certification program. Candidates must also possess a Bachelor's Degree in the appropriate content area.</i> |               |  |                |
|  | Course Number | Course Title   | Semester Hours |
| 1. History/Philosophy of Science and Technology (three semester hours)   |               |  |                |
| 2. Physics Coursework – Minimum of 20 semester hours which must include:   |               |  |                |
| a. Mechanics   |               |  |                |
| b. Electricity and Magnetism   |               |  |                |
| c. Heat, Sound, and Light  |               |  |                |
| d. Atomic or Modern Physics  |               |  |                |
| e. Physics Electives   |               |  |                |
| 3. Additional Science Coursework – Minimum of 12 semester hours which must include:  |               |  |                |
| a. Chemistry   |               |  |                |
| b. Biology   |               |  |                |
| c. Earth Science   |               |  |                |
| d. Environmental Science   |               |  |                |
| <b>Content Knowledge Area - Total Semester Hours</b>   |               |  |                |

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6<sup>th</sup> Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email [civilrights@dese.mo.gov](mailto:civilrights@dese.mo.gov).