



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION  
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

**SCIENCE, GRADES 5-9 - POST-BACCALAUREATE**

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| EDUCATOR PREPARATION PROGRAM NAME<br><b>Columbia College</b> | EDUCATOR PREPARATION PROGRAM CODE<br><b>515712</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 grouplisted.
- 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 grouplisted.
- 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 45 semester hours)**

**1. Content Planning and Delivery**

|  | Course Number                          | Course Title   | Semester Hours |
|--|--|--|----------------|
| a. Curriculum and Instructional Planning                             | EDUC 505/300<br>EDUC 365               | Instructional Theory Techniques/Techniques of Teaching<br>Teaching Middle School and Secondary Science               | .75<br>1       |
| b. Instructional Strategies and Techniques in Content Area Specialty | EDUC 505/300<br>EDUC 365               | Instructional Theory Techniques/Techniques of Teaching<br>Teaching Middle School and Secondary Science               | .75<br>1       |
| c. Assessment, Student Data, and Data-Based Decision-Making          | EDUC 580/322                           | Methods of Effective Academic Evaluation/Educational Measurement and Assessment                                      | 3              |
| d. Strategies for Content Literacy                                   | EDUC 516/338                           | Reading and Writing Across the Curriculum/Content Reading and Writing  | 0              |
| e. Critical Thinking and Problem Solving                             | EDUC 505/300<br>EDUC 375               | Instructional Theory of Techniques/Techniques of Teaching<br>Advanced Content Methods                                | .75<br>.75     |
| f. English Language Learning   | EDUC 542<br>Or EDUC 600<br>Or EDUC 520 | Law, Ethics, and Education<br>Or Education Seminar for Teacher Candidates<br>Or Methods of Teaching English Learners | 0<br>3         |

**2. Individual Student Needs**

|  | Course Number                                   | Course Title  | Semester Hours |
|--|---|---|----------------|
| a. Psychological Development of the Child and Adolescent | EDUC 550, or EDUC 391 and EDUC 392, or EDUC 396 | Human Development or Child Psychology and Adolescent Psychology<br>or Child and Adolescent Development          | 3              |
| b. Psychology/Education of the Exceptional Child         | EDUC 525/390                                    | Educating Exceptional Individuals/Education and Psychology of the Exceptional Child                             | 1              |
| c. Differentiated Learning                               | EDUC 375<br>EDUC 525/390                        | Advanced Content Methods<br>Educating Exceptional Individuals/Education and Psychology of the Exceptional Child | .75<br>1       |
| d. Classroom Management                                  | EDUC 563/311                                    | Management of the Classroom Environment/Classroom and Behavior Management Techniques                            | 1.5            |
| e. Cultural Diversity                                    | EDUC 555/SOCI 270                               | Development, Gender, and Cultural Differences/ Minority Cultures and Relations                                  | 3              |
| f. Educational Psychology                                | EDUC 560/230                                    | Theories of Learning/Educational Psychology   | 3              |

| 3. Schools and the Teaching Profession       |               |   |                |
|--|---------------|---|----------------|
|  | Course Number | Course Title  | Semester Hours |
| a. Consultation and Collaboration            | EDUC 525/390  | Educating Exceptional Individuals/Education and Psychology of the Exceptional Child | 1              |
| b. Legal/Ethical Aspects of Teaching         | EDUC 542/200  | Law, Ethics, and Education  | 3              |
| c. Middle School Philosophy and Organization | EDUC 326      | Middle School Methods   | 3              |

| 4. Middle School Literacy (Minimum of 6 semester hours)           |               |   |                |
|---|---------------|---|----------------|
|   | Course Number | Course Title  | Semester Hours |
| a. Reading and Writing in the Content Area                        | EDUC 516/338  | Reading and Writing Across the Curriculum/Content Reading and Writing | 3              |
|   | EDUC 375      | Advanced Content Methods  | .75            |
| b. Instructional Interventions for Students with Reading Deficits | EDUC 578/376  | Adolescent Literacy Theory and Technique/Adolescent Literacy          | 3              |

| 5. Content Knowledge for Teaching (Minimum of 24 semester hours with appropriate distribution in one of the following certificate subject areas) |                                |   |                |
|--|--------------------------------|---|----------------|
|  | Course Number                  | Course Title  | Semester Hours |
| a. Agricultural Education  |                                |   |                |
| b. Business Education  |                                |   |                |
| c. Technology and Engineering  |                                |   |                |
| d. Language Arts   |                                |   |                |
| e. Mathematics   |                                |   |                |
| f. Science   | ASTR 108                       | Introduction to Astronomy   | 3              |
|  | BIOL 110                       | Principles of Biology   | 3              |
|  | CHEM/PHYS 108                  | Physical Science Survey   | 3              |
|  | CHEM 109 or CHEM 110           | Chemistry for Biological and Health Related Sciences or Chemistry I   | 3              |
|  | ENVS 115                       | Introduction to Environmental Science                                 | 3              |
|  | GEO 110                        | Introduction to Physical Geology                                      | 3              |
|  | PHYS 111                       | College Physics   | 3              |
|  | HIST 303 or BIOL/CHEM/ENVS 105 | Science, Technology, and Humanity: A History or Essentials of Science | 3              |
| g. Social Science  |                                |   |                |
| h. Speech/Theatre  |                                |   |                |
| <b>Professional Requirements - Total Semester Hours</b>  |                                |   | <b>57 - 60</b> |

| B. Field and Clinical Experiences (Minimum of 10 semester hours)  |               |  |                |
|---|---------------|--|----------------|
|   | Course Number | Course Title   | Semester Hours |
| 1. Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)                    | EDUC 505/300  | Instructional Theory Techniques/Techniques of Teaching                               | .75            |
|   | EDUC 563/311  | Management of the Classroom Environment/Classroom and Behavior Management Techniques | 1.5            |
| 2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)                | EDUC 516/338  | Reading and Writing Across the Curriculum/Content Reading and Writing                | 0              |
|   | EDUC 365      | Teaching Middle School and Secondary Science   | 1              |
|   | EDUC 375      | Advanced Content Methods   | .75            |
| 3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement) | EDUC 698      | Graduate Student Teaching  | 9              |
|   | Or EDUC 424   | Or Student Teaching in the Middle School   |                |
|   | Or EDUC 425   | Or Undergraduate Student Teaching  |                |
| <b>Field and Clinical Experiences - Total Semester Hours</b>  |               |  | <b>13</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).