



**MIDDLE SCHOOL EDUCATION MATHEMATICS, GRADES 5-9**

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| EDUCATOR PREPARATION PROGRAM NAME<br><b>WASHINGTON UNIVERSITY</b> | EDUCATOR PREPARATION PROGRAM CODE<br><b>300342</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 45 semester hours)**

**1. Content Planning and Delivery**

|  | Course Number  | Course Title  | Semester Hours                                   |
|--|--|---|--|
| a. Curriculum and Instructional Planning                             | ED 417<br>ED 4952  | - Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction  | 3 (.3)<br>3 (.3)                                 |
| b. Instructional Strategies and Techniques in Content Area Specialty | ED 417<br>ED 4952  | - Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction  | (.2)<br>(.2)                                     |
| c. Assessment, Student Data, and Data-Based Decision-Making          | ED 417<br>ED 4952<br>ED 408<br>ED 4821                           | - Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction<br>- Education & Psych. of Exceptional Children<br>- Teaching-Learning Process in Secondary School   | (.1)<br>(.1)<br>(.1)<br>(.1)                     |
| d. Strategies for Content Literacy                                   | ED 417<br>ED 4952<br>ED 5681                                     | - Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction<br>- Reading in the Content Areas  | (.1)<br>(.1)<br>(.5)                             |
| e. Critical Thinking and Problem Solving                             | ED 417<br>ED 4952<br>ED 4821                                     | - Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction<br>- Teaching-Learning Process in Secondary School   | (.1)<br>(.1)<br>(.2)                             |
| f. English Language Learning   | ED 5253<br><br>ED 417<br>ED 4952<br>ED 4821<br>ED 408<br>ED 4843 | - Instructional Interventions in Reading for Adolescents & English Language Learners<br>- Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction<br>- Teaching-Learning Process in Secondary School<br>- Education & Psych. of Exceptional Children<br>- Field Experience Seminar | (.5)<br><br>(.1)<br>(.1)<br>(.1)<br>(.1)<br>(.1) |

**2. Individual Student Needs**

|  | Course Number   | Course Title   | Semester Hours                   |
|--|---|--|----------------------------------|
| a. Psychological Development of the Child and Adolescent | (These two courses)<br>ED 4052 AND<br>ED 313B<br><br>OR<br><br>(These 3 courses)<br>ED 4052<br>PSYCH 321<br>PSYCH 325 | - Educational Psychology: Focus on Teaching and Learning in Schools<br>- Education, Childhood, Adolescence and Society<br><br><br>- (same as above)<br>- Developmental Psychology<br>- Psychology of Adolescence | (.2)<br><br>3 (.8)<br><br>3<br>3 |
| b. Psychology/Education of the Exceptional Child         | ED 408  | - Education & Psych. of Exceptional Children   | 3 (.5)                           |

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| c. Differentiated Learning  | ED 4052<br>ED 417<br>ED 4952<br>ED 4821<br>ED 408<br>ED 4843  | - Educational Psychology: Focus on Teaching and Learning in Schools<br>- Curriculum and Instruction in Math<br>- Middle School Curriculum and Instruction<br>- Teaching-Learning Process in Secondary School<br>- Education & Psych. of Exceptional Children<br>- Field Experience Seminar   | (.1)<br>(.1)<br>(.1)<br>(.1)<br>(.1)<br>(.2)   |
| d. Classroom Management   | ED 4052<br>ED 408<br>ED 4821<br>ED 4843   | - Educational Psychology: Focus on Teaching and Learning in Schools<br>- Education & Psych. of Exceptional Children<br>- Teaching-Learning Process in Secondary School<br>- Field Experience Seminar   | (.1)<br>(.1)<br>(.2)<br>(.2)   |
| e. Cultural Diversity   | ED 313B<br>ED 4052<br><br>ED 4821<br>ED 4843<br><br>(one course)<br>ED 301C<br>ED 453B<br>ED 459F<br>ED 481   | - Education, Childhood, Adolescence and Society<br>- Educational Psychology: Focus on Teaching and Learning in Schools<br>- Teaching-Learning Process in Secondary School<br>- Field Experience Seminar<br><br>(one of the following courses)<br>- American School<br>- Sociology of Education<br>- Philosophies of Education<br>- History of Education  | (.2)<br>(.1)<br><br>(.1)<br>(.1)<br><br>3  |
| f. Educational Psychology   | ED 4052   | - Educational Psychology: Focus on Teaching and Learning in Schools  | 3 (.5)   |
| <b>3. Schools and the Teaching Profession</b>   |   |  |  |
|   | <b>Course Number</b>  | <b>Course Title</b>  | <b>Semester Hours</b>  |
| a. Consultation and Collaboration   | ED 4843<br>ED 4821  | - Field Experience Seminar<br>- Teaching-Learning Process in Secondary School  | 2 (.2)<br>(.1)   |
| b. Legal/Ethical Aspects of Teaching  | ED 4843<br>ED 4821<br>ED 408  | - Field Experience Seminar<br>- Teaching-Learning Process in Secondary School<br>- Education & Psych. of Exceptional Children  | (.2)<br>(.1)<br>(.1)   |
| c. Middle School Philosophy and Organization  | ED 4951   | - Middle School Philosophy and Organization  | 2  |
| <b>4. Middle School Literacy (Minimum of six semester hours)</b>  |   |  |  |
|   | <b>Course Number</b>  | <b>Course Title</b>  | <b>Semester Hours</b>  |
| a. Reading and Writing in the Content Area  | ED 5681   | - Reading in the Content Areas   | 3 (.5)   |
| b. Instructional Interventions for Students with Reading Deficits   | ED 5253   | - Instructional Interventions in Reading for Adolescents & English Language Learners   | 3 (.5)   |
| <b>5. Content Knowledge for Teaching (Minimum of 24 semester hours with appropriate distribution in one of the following certificate subject areas)</b> |   |  |  |
|   | <b>Course Number</b>  | <b>Course Title</b>  | <b>Semester Hours</b>  |
| a. Agricultural Education   |   |  |  |
| b. Business Education   |   |  |  |
| c. Technology and Engineering   |   |  |  |
| d. Language Arts  |   |  |  |
| e. Mathematics  | (Eight courses in this block minimum)<br><br>Math 131<br>Math 132<br>CSE 131<br>CSE 132<br>Math 217<br>Math 220<br>Math 233<br>Math 302<br>Math 309<br>Math 310<br>Math 318<br><br>Math 3200<br><br>Math 331<br>Math 3351<br>Math 350<br>Math 429 | (Eight courses in this block minimum)<br><br>- Calculus I<br>- Calculus II<br>- Computer Science I<br>- Computer Science II<br>- Differential Equations<br>- Finite Mathematics<br>- Calculus III<br>- Elementary Geometry from Advanced View<br>- Matrix Algebra<br>- Foundations for Higher Mathematics<br>- Introduction to Calculus of Several Variables<br>- Elementary to Intermediate Statistics and Data Analysis<br>- Algebraic Systems<br>- Elementary Theory of Numbers<br>- Topics in Applied Mathematic<br>- Linear Algebra | <br><br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br><br>3<br><br>3<br>3<br>3<br>3 |

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| f. Science  |                      |   |                       |
| g. Social Science   |                      |   |                       |
| h. Speech/Theatre   |                      |   |                       |
| <b>Professional Requirements - Total Semester Hours</b>   |                      |   | <b>55</b>             |
| <b>B. Field and Clinical Experiences (Minimum of ten semester hours)</b>  |                      |   |                       |
|   | <b>Course Number</b> | <b>Course Title</b>   | <b>Semester Hours</b> |
| 1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)                        | ED 4052              | - Educational Psychology: Focus on Teaching and Learning in Schools | 1                     |
| 2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)                    | ED 4843              | - Field Experience Seminar  | 1                     |
| 3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement) | ED 4922              | - Student Teaching in Middle School                                 | 8                     |
| <b>Field and Clinical Experiences - Total Semester Hours</b>  |                      |   | <b>10</b>             |

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