TEACHING, WITH TEACHER CERTIFICATION IN MATHEMATICS (PRESCHOOL-GRADE 12) AND TEACHER OF STUDENTS WITH DISABILITIES (M.A.T.)

Program Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</table>

Additional Requirements for State Certification

Speech
CMST 101 Fundamentals of Speech: Communication Requirement 3

Physiology and Hygiene
Pass the MSU Health Knowledge Test available through the Center of Pedagogy or have the Undergraduate equivalent course approved by advisor Additional Requirement
Select one of the following: 3
- EDFD 582 Learning Theories
- FSHD 515 Child Development II: Adolescence
- PSYC 560 Advanced Educational Psychology

Program Requirements

SASE 509 Sociocultural Perspectives on Curriculum and Assessment 3
SASE 680 Special Topics in Curriculum and Teaching 1-3
SPED 566 Creating Curricular Access for Adolescents with Disabilities 3
SPED 568 Teaching Methods for Inclusive Education 3
SPED 579 Special Education for Students with Disabilities 3
SPED 586 Educational Planning for Adolescents with Disabilities 3
SPED 588 Positive Behavior Supports for Diverse Learners 3
Graduate Professional Sequence I
SASE 526 Seminar in Inclusive Pedagogies 3
SASE 527 Clinical Practice I 3
SPED 584 Assessment in Special Education and Classroom Practice 3
Teaching Methods
Select from the list below according to subject area: 3-6
Graduate Professional Sequence II
SASE 543 Advanced Seminar in Inclusive Pedagogies 3
SASE 529 Clinical Practice II 6

Comprehensive Exam
In the term that you will sit for exam, register for the section which matched your major & advisor. Successfully pass exam.
- GRAD CMP Comprehensive Examination

Total Credits 46-51

Subject Matter Preparation

<table>
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<tr>
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Mathematics Courses
CSIT 111 Fundamentals of Programming I 3
MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 222 Calculus III 4
MATH 225 Linear Algebra 4
MATH 340 Probability 3
MATH 350 College Geometry 3
MATH 431 Foundations of Modern Algebra 3

Mathematics Electives
Select two of the following: 6
- MATH 271 Selected Topics in Modern Mathematics
- MATH 323 Complex Variables
- MATH 325 Ordinary Differential Equation
- MATH 364 Operations Research I
- MATH 369 Mathematical Modeling
- MATH 425 Advanced Calculus I
- MATH 426 Advanced Calculus II
- MATH 433 Theory of Numbers
- MATH 450 Foundations of Geometry
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MATH 451</td>
<td>Topology</td>
</tr>
<tr>
<td>MATH 463</td>
<td>Numerical Analysis</td>
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<tr>
<td>MATH 465</td>
<td>Operations Research II</td>
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<td>MATH 475</td>
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<tr>
<td>MATH 485</td>
<td>Applied Combinatorics and Graph Theory</td>
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<tr>
<td>MATH 490</td>
<td>Honors Seminar</td>
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<tr>
<td>MATH 495</td>
<td>Special Topics in Advanced Undergraduate</td>
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<td></td>
<td>Mathematics</td>
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<tr>
<td>MATH 497</td>
<td>Mathematics Research I</td>
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<tr>
<td>MATH 498</td>
<td>Mathematics Research II</td>
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<tr>
<td>MATH 574</td>
<td>Problem Analysis in Secondary Mathematics</td>
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<tr>
<td>MATH 575</td>
<td>Special Topics in Mathematics Education</td>
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<tr>
<td>MTHM 579</td>
<td>Applied Mathematics for the Middle Schools</td>
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<tr>
<td>STAT 341</td>
<td>Statistical Computing</td>
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<tr>
<td>STAT 442</td>
<td>Fundamentals of Modern Statistics II</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td><strong>34</strong></td>
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