

MATHEMATICS (K-8) Area of Specialization

The following is required:

7S:134/EDTL:3534 Methods: Middle School Mathematics 3 s.h.
(This 3 s.h. is not included in the required 24 s.h. in mathematics.)

ONE of the following is required:

(e) 22M:12 Theory of Arithmetic (was 22M:004) 3 s.h.
(s) 22M:50 Introduction to Abstract Algebra 3 s.h.

ONE of the following is required

(e) 22M:81 Geometry for Elementary Teachers 3 s.h.
(s) 22M:70 Foundations of Geometry 3 s.h.

ONE of the following is required:

22C:1 Computer Literacy 3 s.h.
22C:5 Introduction to Computer Science 3 s.h.
(s) 22C:16 Computer Science I: Fundamentals 4 s.h.

ONE of the following is required:

22M:09 Elementary Functions 4 s.h.
22M:10 Finite Mathematics 4 s.h.
22M:13 Mathematics for Business 4 s.h.
22M:15 Mathematics for the Biological Sciences 4 s.h.
(s) 22M:27 Introduction to Linear Algebra 4 s.h.
22M:33 Engineering Mathematics III: Matrix Algebra 2 s.h.

ONE of the following is required:

22M:11 Introduction to Calculus with Applications 4 s.h. (no longer available)
22M:16 Calculus for the Biological Sciences 4 s.h.
22M:17 Calculus & Matrix Algebra for Business 4 s.h.
(s) 22M:25 Calculus I 4 s.h.
22M:31 Engineering Calculus I: Single Variable Calculus 4 s.h.

ONE of the following is required:

22S:2 Statistics and Society 3 s.h.
22S:8 Statistics for Business 4 s.h.
22S:25 (7P:25) Elementary Statistics and Inference 3 s.h.
22S:39 Probability and Statistics for the Engineering
and Physical Sciences 3 s.h.
22S:102 (7P:143) Introduction to Statistical Methods 3 s.h.
(s) 22S:120 Probability and Statistics 4 s.h.

ELECTIVES from courses with department numbers 22C, 22M, or 22S to achieve a total of at least 24 semester hours including the above.

NOTES

1. Above (e) means the course is designed specifically for prospective elementary school teachers, (s) means the course is a requirement for prospective secondary school teachers.
2. 22M:1, 22M:2, 22M:3 cannot be counted in the 24 semester hours requirement.
3. Only two of 22S:2, 22S:8, and 22S:25 may be counted toward graduation. (NOTE: 22S:2 may not be taken after 22S:8 or 22S:25)
4. "Regression" is not permitted by the Mathematics Department. For example, a student who has completed 22M:25 is not allowed to then take its prerequisite 22M:09 later for credit. (Check with advisor for regressions)

NOTE: The courses required for this specialization are subject to change. Students will fulfill the requirements in place at the time of admission to the Teacher Education Program.