MATHEMATICS FOR TEACHERS (MTCH)

MTCH 2000  MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS I  
(3 credits)
A course for prospective elementary school teachers that involves 
mathematical reasoning, conjecturing, problem-solving, and connecting 
mathematical thought to its applications. Topics include fractions, decimals, 
arithmetic operations, and proportional reasoning.  
Prerequisite(s)/Corequisite(s): At least C in MATH 1310 or MATH 1120 
and TED 2100 (EDUC 2020) or TED 2200 (EDUC 2030); OR at least C in 
MATH 1310 or MATH 1120 and passing the Praxis I - Core.

MTCH 2010  MATHEMATICS FOR ELEMENTARY TEACHERS II  
(3 credits)
This course represents a collection of topics, developed specifically for 
elementary school teachers, not covered in other courses.  
Prerequisite(s)/Corequisite(s): MTCH 2000 with a grade of C or better.

MTCH 2020  NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR 
MIDDLE SCHOOL EDUCATION  
(3 credits)
The course covers the following major concepts: standard algorithms for 
Arithmetic with rational numbers, proportional reasoning, number theory 
topics in K-8, beginning Algebra concepts, and beginning Geometry.  
Prerequisite(s)/Corequisite(s): TED 2100 (EDUC 2020) or TED 2200 
(EDUC 2030) each with a C or better and College of Education major and 
MATH 1950 with a C or better. Not open to non-degree graduate students.

MTCH 4800  MATHEMATICS EDUCATION CAPSTONE  
(3 credits)
This capstone course for preservice and inservice teachers is intended to 
help connect the undergraduate mathematics curriculum to the secondary 
mathematics curriculum. Course topics include functions, equations, 
algebraic structures, congruence, trigonometry, and calculus. Topics are 
explored via strategies useful for studying mathematics called concept 
analysis and problem analysis. (Cross-listed with MTCH 8806).  
Prerequisite(s)/Corequisite(s): MATH 4030 with a C or better or 
MATH 3640 with a C or better.