

PREREQUISITE WORKSHEET FOR  
**MASTERS IN MATHEMATICS EDUCATION**

The courses listed below, or their equivalents, are required prerequisites for the Education Graduate Program. Fill out the information for each course. All students enrolling have completed the G.E. A.1 requirement.

Institution: \_\_\_\_\_ Semester or Quarter/Year: \_\_\_\_\_

Course Number: \_\_\_\_\_ Grade: \_\_\_\_\_

**MATH 341. Number Theory**

Divisibility, congruences, number theoretic functions, Diophantine equations, primitive roots, continued fractions. Writing proofs.

Institution: \_\_\_\_\_ Semester or Quarter/Year: \_\_\_\_\_

Course Number: \_\_\_\_\_ Grade: \_\_\_\_\_

**MATH 355. College Geometry**

Transformations, motions, similarities, geometric objects, congruent figures, axioms of geometry and additional topics in Euclidean and non-Euclidean geometry. Writing proofs.

Institution: \_\_\_\_\_ Semester or Quarter/Year: \_\_\_\_\_

Course Number: \_\_\_\_\_ Grade: \_\_\_\_\_

**MATH 380. Probability and Statistics**

Frequency interpretation of probability. Axioms of probability theory. Discrete probability and combinatorics. Random variables. Distribution and density functions. Moment generating functions and moments. Sampling theory and limit theorems.

Institution: \_\_\_\_\_ Semester or Quarter/Year: \_\_\_\_\_

Course Number: \_\_\_\_\_ Grade: \_\_\_\_\_

