Entrance Requirement for MSED Students with a Master’s Degree in Mathematics Education

The requirements for admission to MSED historically included having a Master’s degree, or equivalent, in mathematics. Students with a Master’s degree in mathematics education were admitted by exception, not as a rule. This document describes a plan to regularize admission to MSED with a Master’s degree in mathematics education, under specified conditions, while continuing to consider applications from students with a Master’s degree in mathematics.

Students with a Master’s degree in mathematics education with all of the three following background experiences are eligible for Option A or Option B. These options were designed to be consistent with the spirit of cooperation between the UCSD and SDSU campuses and to draw on the strengths of each mathematics department.

Required:
- Bachelor’s degree in mathematics (or equivalent)
- Master’s degree in mathematics education (must include graduate level mathematics courses in Analysis and Algebra)
- Must have completed advanced undergraduate or graduate level work in Geometry

**Option A**

1. Student takes a year-long sequence in Analysis at UCSD (Math 240A, 240B, 240C) and passes the UCSD comprehensive examination at the Master’s level.
2. Student takes an approved graduate level course in Algebra either at UCSD (Math 200A) or at SDSU (Math 627A or Math 623). Math 623 (Linear Algebra) can only be chosen if the student has already taken Abstract Algebra at the graduate level.

**Option B**

1. Student takes a year-long sequence in Algebra at SDSU (two of Math 627A, 627B, 623) and passes the SDSU comprehensive examination at the Master’s level.
2. Student takes an approved graduate level course in Analysis at UCSD (Math 240A).

The goal is to ensure that upon completion of the program the student has mathematical breadth in Geometry, Analysis, and Algebra, with depth (at the level of passing the comprehensive exam at the Master’s level) in either Analysis or Algebra.

Whether the student selects Option A or Option B, the year-long sequence (in either Algebra or Analysis) must be taken in Year 1 of the MSED program. All of the requirements for Option A or Option B must be completed prior to the second year exam; however, our preference is that the requirements be completed by the end of Year 1. A grade of B or better must be earned in each course.