

MATHEMATICS, M.M.

The department offers two degree programs for students who wish to emphasize secondary and junior college mathematics education—the M.A.T. and the M.M. degrees. Courses at the 700-level specifically designed for these programs are designated by the letter I adjoined to the course number. These courses are generally offered in the late afternoon during the academic year and during the summer to provide area teachers the opportunity to work toward a degree on a part-time basis.

The Master of Mathematics degree is designed primarily for students who seek a broad, thorough training in mathematics which includes course work specifically designed to meet the needs of secondary-school teachers for whom SC certification is not an issue, and for those intending to teach at the junior/community college level.

Learning Outcomes

1. MM students will demonstrate an understanding of algebra, calculus, statistics and geometry as taught at the secondary level, and the basic elements of group theory, ring theory, and real analysis, that is, the material of core curriculum courses listed above. MS and MA students will master the material of the core curriculum courses listed above, as well as the foundational material of their specialty. The level of problem formulation and solution, and written expository skill, should reach a level adequate for the writing of a thesis. [Note: specific topics could be itemized here as in the PhD plan, but since the three degrees have such different programs of study, this would probably be excessively lengthy.]
2. All students who are GTA's will demonstrate teaching proficiency in the settings described in the Curriculum above.