UNIVERSITY OF MARYLAND, COLLEGE PARK  
Master of Arts (M.A.) in Mathematics Education

The M.A. program in Mathematics Education is designed for students interested in careers in research and/or further doctoral degree studies in mathematics education. It is a 30 semester-hour program* that requires a 3-hour written comprehensive examination, a thesis and an oral thesis defense.

**Research and Disciplined Inquiry Requirements (9 credits, required):**
- EDMS 645 Quantitative Research Methods I (3 credits, required)
- EDCI 799 Master's Thesis Research (6 credits, required)
- EDMS 646 Quantitative Research Methods II (3 credits) – strongly recommended for those considering pursuing a doctorate

**Discipline-based Content Studies (12 credits):**
All M.A. degree option candidates are expected to take advanced level, subject matter discipline-based coursework that supports their understanding of topics, research, and/or theory related to their teaching roles. The specific courses vary with teaching level and the needs and interests of candidates.

For teachers at the secondary level or beyond, 9-12 credits of MATH courses (400 level or above) are required.
- **Suggested courses:**
  - MATH 406 Introduction to Number Theory (3 credits)
  - MATH 430 Euclidean and Non-Euclidean Geometries (3 credits)
  - MATH 483 Algebra for High School Teachers (3 credits)
  - MATH 484 Geometry for High School Teachers (3 credits)
  - MATH 485 Statistics for High School Teachers (3 credits)
  - MATH 486 Calculus for High School Teachers (3 credits)

For elementary teachers, 6-9 credits of MATH courses (400 level or above) are required.

**Professional Development Studies (9 credits):**
- EDCI 650 Trends in Mathematics Education (3 credits)
- Additional Hours in Mathematics Education (6 credits)
  - **Suggested courses:**
    - EDCI 654 Assessing Mathematical Understanding (3 credits)
    - EDCI 657 Understanding and Engaging Students’ Conceptions of Mathematics (3 credits)

Qualified mathematics education students may also take either:
- EDCI 751 Foundations of Mathematics Education I: Theory and Research on Mathematical Thinking and Learning (3 credits) or
- EDCI 753 Foundations of Mathematics Education III: Curriculum (3 credits)

*Minimum – 30 credits beyond bachelor’s degree; at least 15 must be at the 600 level or above.