

*Information in this document is subject to change. Confirm requirements with your advisor.*

## **UNIVERSITY OF MARYLAND, COLLEGE PARK**

### **Requirements for M.Ed. in Teacher Leadership – Secondary Mathematics Education**

The Master of Education (M.Ed.) program is a 30 semester-hour program that provides considerable flexibility in planning a sequence of courses and in meeting the non-course degree requirements. A student's program culminates in the completion of two required products: an action research paper and a portfolio. Portfolio development is fostered through one of the required courses (EDCI 614), while the action research paper may be developed in conjunction with either EDCI 698 or other courses in a student's program of study.

#### **Degree Requirements**

**A. 30 semester credits fulfilling the course requirements as listed below**

**B. An action research paper, approved by the student's advisor and by a professor facilitating the action research effort**

**C. An approved portfolio**

#### **Course Requirements**

**A. Core Requirements: 15 credits minimum**

**1. Studying Student Learning in Diverse Settings (3 credits).**

EDCI 697 Studying Student Learning in Diverse Settings (3 credits)

**2. Research Foundations for Teaching (3 credits).**

*Suggested course/s:*

EDCI 685 Research Methods (3 credits)

EDCI 698 Conducting Research on Teaching (1 credit in Fall + 2 credits in Spring for 3 credits)

EDMS 645 Quantitative Methods I (3 credits)

**3. Practices and Policies Support for Teaching (3 credits).**

*Suggested course/s:*

EDCI 612 Assessing Student Learning and Development (3 credits)

EDCI 632 Special Education and Oral Language Development in TESOL (3 credits)

EDCI 687 Applications of Computers in Instructional Settings (3 credits)

EDCI 697 Embracing Diversity in Classroom Communities (3 credits)

EDCI 654 Assessing Mathematical Understanding (3 credits)

**4. Leadership in Schools (3 credits).**

*Suggested course/s:*

EDCI 682 Proseminar in Professional Development (3 credits)

EDCI 781 Analysis of Instruction (3 credits)

EDHI 640 Introduction to Educational Leadership

**5. Professional Development Seminar (3 credits).**

EDCI 614 Developing a Professional Portfolio (3 credits)

**B. Mathematics Education Specialization Area Studies: 15 credits minimum**

Specialization area courses consist of subject area content and pedagogy and other professional courses that support the professional development plan created by the M.Ed. candidate; the candidate develops this plan with the specialization area advisor based upon initial needs assessment in relation to the vision of accomplished practice.

**1. Introductory Course (3 credits)**

EDCI 650 Trends in Mathematics Education (3 credits)

**2. Pedagogy and Content:**

**a.) Mathematics Education, learning theory, or supporting content areas (3-6 credits).**

*Suggested courses:*

EDCI 653 Developing Understanding in Mathematics (3 credits)

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)

**b.) Courses from Mathematics (6-9 credits) Number of credits to be agreed with advisor and to reflect candidate's mathematics course history and current goals.**

*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)

**Prerequisite for Admission to Mathematics Education Specialization Area:**

A minimum of two semesters of college calculus is required as a prerequisite for admission to the M.Ed. in Teacher Leadership Program, Mathematics Education Specialization Area