

# EDUCATION MATHEMATICS (EDMA)

## **EDMA 511 Lrng & Tchg Middle Grade Math 3 Credit Hours**

This course addresses issues central to teaching and learning mathematics in middle grades; building learning communities, how students learn mathematics, use of worthwhile mathematical tasks, instructional modes, technology options, assessment to inform instruction, and professional perspectives. (Y).

**Prerequisite(s):** MATH 443 or MATH 543

**Restriction(s):**

Cannot enroll if Class is

Can enroll if Level is Rackham or Professional Development or Graduate

Can enroll if College is Education, Health, and Human Services

## **EDMA 512 Comm and Assmt in Math Lrng 3 Credit Hours**

Problems and strategies for making effective the reading, symbolizing, graphing, diagramming, explaining, and writing of mathematical concepts and solutions: multiple uses and forms of assessment. (W)

**Restriction(s):**

Can enroll if Class is Specialist or Graduate

Can enroll if College is Education, Health, and Human Services

Can enroll if Major is Education

## **EDMA 521 Leadership in Mathematics Educ 3 Credit Hours**

This course focuses on leadership concerns in mathematics education at the middle grades level. Topics may include school reform; staff development; program review; communicating with the community; new teacher induction; proposal writing. Open only to graduate students or by permission of the instructor. (Y).

**Prerequisite(s):** EDMA 512

**Restriction(s):**

Can enroll if Class is Graduate

Can enroll if Level is Rackham or Professional Development or Graduate

Can enroll if College is Education, Health, and Human Services

## **EDMA 525 Currm Devt & Rsch in Math Ed 3 Credit Hours**

Curriculum Development and Research in Mathematics Education is a capstone course for leadership in mathematics education. It addresses recent research in mathematics education and the design, implementation, and evaluation of research-based curriculum development; action research methods; and applications.

**Prerequisite(s):** EDMA 512 and EDMA 521

**Restriction(s):**

Can enroll if Class is Graduate

## **EDMA 590 Topics in Math Education 1 to 3 Credit Hours**

This course focuses on mathematics education topics of current or emerging interest, such as current research; current curriculum development; issues related to school organization; new technologies; new national, state, or local initiatives; focused fieldwork; and equity concerns. Open only to graduate students or by permission of instructor. Course may be repeated for up to six hours when specific topics differ. (OC).

**Restriction(s):**

Can enroll if Level is Rackham or Professional Development or Graduate

Can enroll if College is Education, Health, and Human Services

## **EDMA 598 Independent Study in Math Ed 1 to 6 Credit Hours**

Independent study in Mathematics Education under the supervision of a faculty member.

**Restriction(s):**

Can enroll if Class is Graduate

Can enroll if College is Education, Health, and Human Services

## **EDMA 712 Comm and Assmt in Math Lrng 3 Credit Hours**

Problems and strategies for making effective the reading, symbolizing, graphing, diagramming, explaining, and writing of mathematical concepts and solutions: multiple uses and forms of assessment. (W)

**Prerequisite(s):** (MATH 442 or MATH 542) and (MATH 443 or MATH 543)

**Restriction(s):**

Cannot enroll if Class is Doctorate

Cannot enroll if Major is Education

## **EDMA 721 Leadership in Mathematics Educ 3 Credit Hours**

This course focuses on leadership concerns in mathematics education at the middle grades level. Topics may include school reform; staff development; program review; communicating with the community; new teacher induction; proposal writing. Open only to graduate students or by permission of the instructor. (Y).

**Prerequisite(s):** EDMA 512

**Restriction(s):**

Can enroll if Class is Specialist or Doctorate

Can enroll if College is Education, Health, and Human Services

## **EDMA 725 Curric Devl&Rsch in Math Ed 3 Credit Hours**

Curriculum Development and Research in Mathematics Education is a capstone course for leadership in mathematics education.

It addresses recent research in mathematics education and the design, implementation, and evaluation of research-based curriculum development; action research methods; and applications.

**Prerequisite(s):** EDMA 512 and EDMA 521

**Restriction(s):**

Can enroll if Class is Specialist or Doctorate

## **EDMA 798 Independent Study in Math Ed 1 to 6 Credit Hours**

Independent study in Mathematics Education under the supervision of a faculty member.

**Restriction(s):**

Can enroll if Class is Specialist or Doctorate

Can enroll if College is Education, Health, and Human Services

\*An asterisk denotes that a course may be taken concurrently.

## **Frequency of Offering**

The following abbreviations are used to denote the frequency of offering: (F) fall term; (W) winter term; (S) summer term; (F, W) fall and winter terms; (YR) once a year; (AY) alternating years; (OC) offered occasionally