LICENSE ADDITION: MATHEMATICS (MIDDLE GRADES)

IU

INDIANA UNIVERSITY

SCHOOL OF EDUCATION
Office of Teacher Education
Bloomington

The State of Indiana has authorized Indiana University School of Education to offer License Additions in selected areas. The Middle Grades Mathematics License Addition can be added to an Elementary or Secondary License. This program is only available to teacher candidates who are in the process of completing an initial license in a recognized Teacher Education Program. A "C" or higher grade in each course and a minimum 2.5 GPA in the license addition is required.

It may not be possible to complete this license addition as part of a four year undergraduate degree program. A graduate option is available.

May 2015

NOTE: Students are strongly encouraged to seek advising from a math education faculty member if considering this license addition. The faculty can explain how this program of study works, and of other possible math course options.

ELEMENTARY & ELEMENTARY SPECIAL EDUCATION OPTION
32 credits/2.5 GPA
(C or higher grade is required in each course.)

Required		8 credits
MATH-M 211	*Calculus I (P: 2 yrs of HS algebra, 1 yr of HS geometry, pre-calculus math (or its equiv.), and trigonometry; or both M 25 & M 26)* **(MM, N&M)**	4
MATH-M/S 212	*Calculus II (P: M 211)* **(N&M)**	4

Electives		9 credits

Complete 9 additional credits of math electives. To be chosen from those listed below **or** from other courses approved by a math education faculty member.

MATH-K 310	*Statistical Techniques (P: M 119 or Equiv.)* **OR**	3
MATH-M 365	*Intro to Probability & Statistics (P: M 212)*	
MATH-M 330	*Exploring Math Ideas (P: M 211) (Spring)*	3
MATH-M 380	*History of Mathematics (P: M 212)*	3
MATH-T 336	*Topics in Euclidean Geometry (P: M 212) (Fall)*	3

Professional Education (P: Must be admitted to the Teacher Education Program to enroll in these courses. Exception: EDUC-P313)		**9 credits**
EDUC-P 313	Adolescents in a Learning Community (Permission to register for this course is required.)	3
EDUC-N 310	*Mathematics in Middle School (P/C: EDUC-E 343) (Fall)*	3
EDUC-N 443	*Teaching Elementary Math Problem Solving (P/C: EDUC-E 343) (Spring)*	3

Student Teaching/Practicum		**6 credits**

Successful completion of all courses listed above is a prerequisite for the student teaching practicum.

EDUC-M 470	*Student Teaching Practicum (6 weeks)*	6

SECONDARY & ALL-GRADES OPTION
(with a non-math content field)
32-33 credits/2.5 GPA
(C or higher grade is required in each course.)

Required		8 credits
MATH-M 211	*Calculus I (P: 2 yrs of HS algebra, 1 yr of HS geometry, pre-calculus math (or its equiv.), and trigonometry; or both M 25 & M 26)* **(MM, N&M)**	4
MATH-M/S 212	*Calculus II (P: M 211)* **(N&M)**	4

Electives		9 credits

Complete 9 additional credits of math electives. To be chosen from those listed below **or** from other courses approved by a math education faculty member.

MATH-K 310	*Statistical Techniques (P: M 119 or Equiv.)* **OR**	3
MATH-M 365	*Intro to Probability & Statistics (P: M 212)*	
MATH-M 330	*Exploring Math Ideas (P: M 211) (Spring)*	3
MATH-M 380	*History of Mathematics (P: M 212)*	3
MATH-T 336	*Topics in Euclidean Geometry (P: M 212) (Fall)*	3

Elementary School Math		**9-10 credits**
EDUC-N 101	*Teach & Learn Elem School Math* **OR**	3
MATH-T 101	*Mathematics for Elem. Teachers 1*	
MATH-M/S/V 118	*Finite Mathematics* **(MM, N&M) OR**	3-4
MATH-D 116	*Intro. to Finite Math I* **AND**	
MATH-D 117	*Intro to Finite Math II* **(MM, N&M)**	
EDUC-N 103	*Teach. & Learn. Elem. Sch. Math II (P: EDUC-N 101 or MATH-T 101 with a grade of C or better)* **OR**	3
MATH-T 103	*Mathematics for Elem. Teachers 3 (P: EDUC-N 101 or MATH-T 101 with a grade of C or better)*	

Professional Education (P: Must be admitted to the Teacher Education Program to enroll in these courses.)		**6 credits**

Contact the Math Education Department for permission to register for the following courses.

EDUC-N 310	*Mathematics in Middle School (Fall)*	3
EDUC-N 443	*Teaching Elem Math ProbSolving (Spring)*	3