This program sheet is effective for all students starting at IUB beginning summer 2017.

IU

INDIANA UNIVERSITY
SCHOOL OF EDUCATION
Office of Teacher Education
Bloomington

LICENSE ADDITION: MATHEMATICS (MIDDLE GRADES)

The Middle Grades Mathematics License Addition can be added to an Elementary or Secondary License. This program is only available to students pursuing their first education degree. A grade of "C" or higher in each course and a minimum 2.5 GPA in the license addition is required.

May 2017

NOTE:
- It may not be possible to complete this license addition as part of a four year undergraduate degree program. A graduate option is available.
- An unlimited number of education courses may double count for both an education program and a license addition.
- An unlimited number of education courses may double count for multiple license additions.
- Only one (1) course may double count for both a license addition and an academic minor.

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

Required		8 credits
MATH-M/S 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/S 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/S 212)*	3
MATH-M 330	*Exploring Math Ideas (P: M/S 211)*	3
MATH-M 380	*History of Mathematics (P: M/S 212)*	3
MATH-T 336	*Topics in Euclidean Geometry (P: M/S 212) (Fall)*	3

Professional Education		9 credits
Must be admitted to the Teacher Education Program to enroll in these courses. *Exception: EDUC-P313*		
EDUC-P 313	Adolescents in a Learning Community (Permission to register 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 <u>all courses</u> 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
A grade of C or higher is required in each course.

Required		8 credits
MATH-M/S 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/S 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/S 212)*	3
MATH-M 330	*Exploring Math Ideas (P: M/S 211)*	3
MATH-M 380	*History of Mathematics (P: M/S 212)*	3
MATH-T 336	*Topics in Euclidean Geometry (P: M/S 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*	3
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 higher)* **OR**	3
MATH-T 103	*Mathematics for Elem. Teachers 3 (P: EDUC-N 101 or MATH-T 101 with a grade of C or higher)*	3

Professional Education		
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