

This program sheet is effective for all students starting at IUB beginning summer 2019.



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 2019

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

### Electives 9 credits

Complete 9 additional credits of math electives at the 300-400 level. The following are recommended.

|            |   |   |
|------------|---|---|
| MATH-M 365 | <i>Introduction to Probability and Statistics (P: MATH-M/S 212)</i> | 3 |
| MATH-M 330 | <i>Exploring Mathematical Ideas (P: MATH-M/S 211)</i>               | 3 |
| MATH-M 380 | <i>History of Mathematics (P: MATH-M/S 212)</i>                     | 3 |
| MATH-T 336 | <i>Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall)</i>        | 3 |

### Professional Education 9 credits

Must be admitted to the Teacher Education Program to enroll in these courses. **Exception: EDUC-P 313**

|            |   |   |
|------------|---|---|
| EDUC-P 313 | <i>Adolescents in a Learning Community (P: Soph. status)</i>                      | 3 |
| EDUC-N 310 | <i>Mathematics in Middle School (P/C: EDUC-E 343) (Fall)</i>                      | 3 |
| EDUC-N 443 | <i>Teaching Elementary Mathematics Problem Solving (P/C: EDUC-E 343) (Spring)</i> | 3 |

### Student Teaching/Practicum 6 credits

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

|            |   |   |
|------------|---|---|
| EDUC-M 470 | <i>Student Teaching Practicum (6 weeks)</i> | 6 |
|------------|---|---|

### SECONDARY & ALL-GRADES OPTION

32-33 credits/2.5 GPA

A grade of C or higher is required in each course.

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

### Electives 9 credits

Complete 9 additional credits of math electives at the 300-400 level. The following are recommended.

|            |   |   |
|------------|---|---|
| MATH-M 365 | <i>Introduction to Probability and Statistics (P: MATH-M/S 212)</i> | 3 |
| MATH-M 330 | <i>Exploring Mathematical Ideas (P: MATH-M/S 211)</i>               | 3 |
| MATH-M 380 | <i>History of Mathematics (P: MATH-M/S 212)</i>                     | 3 |
| MATH-T 336 | <i>Topics in Euclidean Geometry (P: MATH-M/S 212) (Fall)</i>        | 3 |

### Elementary School Math 9-10 credits

|            |  |     |
|------------|--|-----|
| EDUC-N 101 | <i>Teach &amp; Learn Elementary Math</i>                                 | 3   |
| _____      | <i>Mathematical Modeling</i>   | 3-4 |
| EDUC-N 103 | <i>Teaching &amp; Learning Elementary School Math II (P: EDUC-N 101)</i> | 3   |

### Professional Education 6 credits

Must be admitted to the Teacher Education Program to enroll in these courses.

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

|            |   |   |
|------------|---|---|
| EDUC-N 310 | <i>Mathematics in Middle School (Fall)</i>                | 3 |
| EDUC-N 443 | <i>Teaching Elem Mathematics Problem Solving (Spring)</i> | 3 |