



## UNDERGRADUATE AND TEACHER EDUCATION

SCHOOL OF EDUCATION  
Bloomington

## B.S. EDUCATION: MATHEMATICS

### Transfer Single Articulation Pathway (TSAP)

This program is only available to students who began the Associate of Science in Education at Ivy Tech Community College or Vincennes University in fall 2015 or later and have completed the A.S. in Education. A total of 60 credits is required to graduate.

This Bachelor of Science in Education degree enables you to teach Middle School/Junior High or High School students. The following are required for retention, student teaching and graduation: a 2.0 GPA in the content area; a 2.5 GPA in the Professional Education and overall; and a grade of C or higher in each professional education course.

May 2023

### PREREQUISITES FOR ADMISSION TO THE TEP

Competitive enrollment. Meeting minimum requirements does not guarantee enrollment in authorized courses.

1. Official student transcript verifying completion of the TSAP in Elementary Education and the STGEC at ITCC or VU must be received by the IU Bloomington Office of Admissions prior to July 1.
2. Minimum cumulative GPA of 2.5 at ITCC or VU
3. No grade lower than a C at ITCC or VU
4. Apply to IUB by June 1 to begin in Fall Term.

### I. PROFESSIONAL EDUCATION

36 credits/2.5 GPA

A grade of C or higher is required in each professional EDUC course. The following courses must be successfully completed before student teaching.

EDUC-A 308	Legal and Ethical Issues in Education	3
EDUC-H 205	Intro to Educational Thought <b>OR</b>	3
EDUC-H 340	Education & American Culture	3
EDUC-K 306	Teaching Students with Special Needs: Secondary Classrooms	3

Courses must be taken in prescribed blocks. Successful completion (C or higher) of all courses in each block is a prerequisite for the next block and student teaching.

Block I and Block II must be completed in sequence from one semester to the next. Students may add an additional semester(s) between the completion of Block II and Student Teaching (Block III).

#### Block I (Spring only) 8 credits

EDUC-M 321	Secondary School Mathematics Curriculum & Assessment	3
EDUC-M 303	Field Experience I	2
EDUC-M 469	Content Area Literacy	3

#### Block II (Fall only) 6 credits

EDUC-M 422	Teaching Mathematics in the Secondary School	3
EDUC-M 403	Field Experience II	2
EDUC-S 303	Classroom Management	1

#### Block III (Student Teaching) 13 credits

Students may not enroll in other classes while completing student teaching. **Exception: EDUC-M 202 Job Search Strategies for Educators**

EDUC-M 420	Student Teaching Seminar	1
EDUC-M 480	Student Teaching in the Secondary School (12 weeks)	12

### II. MATHEMATICS CONTENT

24 credits/2.0

A grade of C minus (C-) or higher is required in each course. Check with the department regarding when courses will be offered.

#### Algebra 6 credits

MATH-M 391	Intro to Mathematical Reasoning (Spring)	3
MATH-M 403	Intro to Modern Algebra (Fall) <b>OR</b>	3
MATH-T 403	Modern Algebra for Secondary Teachers (Fall)	3

#### Geometry 3 credits

MATH-T 336	Topics in Euclidean Geometry (Fall)	3
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#### Applied Mathematics 3 credits

MATH-M 447	Math Models & Applications I (Fall)	3
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#### Computer Programming 3 credits

MATH-M 371	Elementary Computational Methods (Spring)	3
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#### Math in Secondary Curriculum 3 credits

EDUC-M 302	Algebra Throughout the Secondary Curriculum (Fall)	1
EDUC-M 302	Calculus Throughout the Secondary Curriculum (Spring)	1
EDUC-M 302	Probability & Statistics Throughout the Secondary Curriculum (Spring)	1

#### Electives 6 credits

Program must include at least one of the following:

MATH-M 321	Intuitive Topology (Fall)	3
MATH-M 380	History of Mathematics	3
MATH-M 405	Number Theory (Spring, odd years)	3
MATH-M/S 413	Introduction to Analysis I (Fall)	3

Select any other mathematics course at the 300 level or above, but the following are recommended:

MATH-M 330	Exploring Mathematical Ideas	3
MATH-M 415	Elementary Complex Variables with Applications (Spring)	3
MATH-M 453	Cryptography (Spring, odd years)	3