This program sheet is effective for all Ivy Tech or Vincennes University TSAP graduates starting at IUB beginning summer 2020.

INDIANA UNIVERSITY
SCHOOL OF EDUCATION
Office of Teacher 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 2020

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 EDUC course.
The following courses must be successfully completed before student teaching.

EDUC-A 308	*Legal and Ethical Issues for Teachers*	3
EDUC-H 205	*Intro to Educational Thought* **OR**	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)* **OR**	3
MATH-T 403	*Modern Algebra for Secondary Teachers*	3

Geometry — 3 credits

MATH-T 336	*Topics in Euclidean Geometry (Fall)*	3

Applied Mathematics — 3 credits

MATH-M 447	*Math Models & Applications I (Fall)*	3

Computer Programming — 3 credits

MATH-M 371	*Elementary Computational Methods (Spring)*	3

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 <u>at least one</u> of the following:

MATH-M 321	*Intuitive Topology (Spring)*	3
MATH-M 380	*History of Mathematics*	3
MATH-M 405	*Number Theory*	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*	3