



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2023-2024

Associate of Science in Secondary Education – Mathematics (TSAP) To
Bachelor of Science in Mathematics with Secondary Education

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Science (AS) in Secondary Education – Mathematics (TSAP) degree at Ivy Tech Community College (ITCC) and leads to the Bachelor of Science (BS) in Mathematics with Secondary Education degree at Northern Kentucky (NKU) University.

Applying to the IvyTech2NKU Program

Students can apply to participate in the pathway program by completing the online application on the NKU transfer webpage. Students must be enrolled in at least six credit hours at Ivy Tech, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Ivy Tech.

Degree Requirements for Ivy Tech

To earn a degree at Ivy Tech a student must successfully complete the required number of credits for the degree, attain a minimum GPA of 2.0 in the required technical and general education courses, and complete at least 15 degree credits in the curriculum as a regular student of Ivy Tech.

Admission Requirements for NKU

Students completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into NKU.

In addition, students must meet the following requirements for admission into Education. (Courses in parentheses are Ivy Tech course equivalents)

- A minimum overall GPA of 2.75
- A minimum grade of "B" in CMST 101 (COMM 101) and ENG 102 (ENGL 215)
- A minimum grade of "C" in all other pre-admission courses and required EDU and EDS

courses, which include EDU 300 (PSYC 201), EDU 305 (EDU 101), EDU 313 (EDUC 201), EDU 316 (EDUC 255), and EDS 360 (EDUC 230).

- Meet the entrance exam requirement through an approved combination of passing scores on the ACT and/or Praxis I Core Academic Skills for Educators exams
 - o ACT Comp. 22 -OR-
 - o Reading (ACT: 20 -or- Praxis I: 156) and
 - o Eng./Writing (ACT: 18 -or- Praxis I: 162) and
 - o Mathematics (ACT: 19 -or- Praxis I: 150)

ACT scores must be less than 5 years old at time of admissions semester

- Pass criminal background check
- 60 semester hours completed
- An acceptable portfolio
- A completed application to the Teacher Education program
- A completed application to Northern Kentucky University

Degree Requirements for NKU

To earn a bachelor's degree at NKU, students must complete a minimum of 120 credit hours with at least 45 credit hours numbered 300 and above. In addition, at least 25% of the credit hours required for the degree and the last 30 credit hours must be completed at NKU. Students majoring in Education must maintain a GPA of 2.75 overall and in major courses and earn a minimum grade of C in all education courses. Students must meet the pre-requisites for each course. Students wishing to be certified to teach mathematics at the secondary level must complete the requirements for the B.A. in Secondary Education along with the requirements for a B.S. in Mathematics. No minor is required for this major.

Ivy Tech Community College of Indiana

Students must complete the following courses of an AS in Secondary Education – Mathematics (TSAP).

Category 1: ITCC Indiana College Core Competencies

ITCC Course	Course or Category	Credits	NKU Course	Completed
ENGL 111	English Composition	3	ENG 101	
COMM 101	Fundamentals of Public Speaking	3	CMST 101	
MATH 211	Calculus I	4	MAT 129	
MATH 212	Calculus II	4	MAT 229	
SCIN 100	Earth Science	4	GNS/L 100G	
TBS XXX	Scientific Ways of Knowing Elective	3-5	TBD XXX	
PSYC 101	Introduction to Psychology (Social & Behavioral Ways of Knowing)	3	PSY 100	
HIST 101 or HIST 102	Survey of American History I or Survey of American History II	3	HIS 102 HIS 103	
ARTH 110 or HUMA 118	Art History or Music Appreciation	3	ART 100 MUS 100	
Subtotal General Education Core		30-32		

TBS XXX means to be selected by Ivy Tech student

TBD XXX means to be determined by NKU based on course selected at Ivy Tech.

Category 2: ITCC Degree Requirements for AS in Secondary Education – Mathematics (TSAP)

ITCC Course	Course or Category	Credits	NKU Course	Completed
IVYT 111	Student Success in University Transfer	1	UNV 100T	
EDUC 101	Introduction to Teaching	3	EDU 305	
EDUC 121	Child and Adolescent Development	3	EDU 300T	
EDUC 201	Technology in Education	2	EDU 313	
EDUC 250	Educational Psychology	3	EDU 300T	
EDUC 255	Multicultural Teaching	3	EDU 316	
ENGL 215	Rhetoric and Argument	3	ENG 102	
MATH 251	Probability/Statistics	3		
MATH 261	Multivariate Calculus	4	MAT 329	
MATH 264	Differential Equations	3	MAT 325	
MATH 265	Linear Algebra	3	MAT 234	
Total Associate Degree Credit Hours		61-63		

Northern Kentucky University

Students must complete the following courses for a major in Secondary Education.

Category 3: NKU Major Requirements for BA in Secondary Education

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
EDU 104	Orientation: Education Profession/Program	1		
EDU 300	Human Growth and Development	3	PSYC 201	
EDU 304 or EDU 354	Reading and Writing Across the Curriculum: Middle Grades or Read/Write Across Curriculum-Secondary	3		
EDU 305	Introduction to Education	2	EDUC 101	x
EDU 311	Admission Field Experience Secondary	2		
EDU 313	Instructional Technology	3	EDUC 201	x
EDU 316	Education in a Multicultural Society	3	EDUC 255	x
EDU 319	Classroom Climate Management Secondary	1		
EDU 324	Fundamentals of Secondary Education	1		
EDU 325	Educational Assessment Secondary	2		
EDU 333	Teach Math in the Secondary School	3		
EDU 393	Secondary Field Experience I	2		
EDU 396	Secondary Field Experience II	2		
EDU 496	Clinical Experience Secondary	12		
EDS 324	Instructional Planning for Inclusive Secondary Classrooms	3		
EDS 360	Students with Exceptionalities in School	3	EDUC 230	
PSY 100	Introduction to Psychology	3	PSYC 101	x
CMST 101	Public Speaking	3	COMM 101	x
ENG 102	Advanced College Writing	3	ENGL 215	x
	Subtotal Secondary Education Credit Hours at NKU	38		
	Subtotal Secondary Education Credit Hours at ITCC	17		
	Total Secondary Education Credit Hours	55		

EDU 311 is waived if student provides documentation of 50 hours of field experience in an education setting. If EDU 311 is waived, student must complete EDU 334: Portfolio Development (1 credit).

Students must complete the following courses for a major in Mathematics.

Category 4: NKU Major Requirements for BS in Mathematics

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
MAT 129	Calculus I	4	MATH 211	x
MAT 229	Calculus II	5-6	MATH 212	x
MAT 329	Calculus III	4	MATH 261	x
MAT 234	Linear Algebra	3	MATH 265	x
STA 250	Probability and Statistics	3		
MAT 489	Comprehensive Examination	0		
CSC 270 or CSC 260	Mathematics Software Programming or Object-Oriented Programming	3		
MAT 302	Introduction to Higher Mathematics	3		
MAT 345	Introduction to Higher Geometry	3		
STA 341	Statistics II	3		
Select 2: MAT 310 MAT 410 MAT 415	Select two courses from the following: Elementary Theory of Numbers Group Theory Rings and Fields	6		
Select 1: MAT 360 MAT 420 MAT 430	Select one course from the following: Numerical Analysis Real Variables I Complex Variables	3		
MAT XXX or STA XXX	Select three additional hours of MAT or STA electives at the 300 level or above	3	MATH 264 (equates to MAT 325)	x
	Subtotal Major Credit Hours at NKU	24		
	Subtotal Major Credit Hours at ITCC	19		
	Total Major Credit Hours	43		
	Total Baccalaureate Degree Credit Hours	124		

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