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## TWO DEGREES, ONE PATH

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### TRANSFER PATHWAY GUIDE 2022-2023

#### Associate in Science to Bachelor of Science in Mathematics with Secondary Education

##### **Overview**

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at a Kentucky Community and Technical College System (KCTCS) institution and leads to the Bachelor of Science (BS) in Mathematics with Secondary Education degree at Northern Kentucky University (NKU).

##### **Applying to the KCTCS2NKU 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 their KCTCS institution, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at their KCTCS institution.

##### **Degree Requirements for KCTCS**

1) Completion of minimum 60 credit hours, 2) minimum cumulative GPA 2.0, 3) minimum of 15 credit hours earned at the institution awarding the degree, 4) cultural studies course, 5) demonstration of digital literacy, and 6) college success requirement.

##### **Admission Requirements to 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 KCTCS course equivalencies.

- A minimum overall GPA of 2.75
- A minimum grade of “B” in CMST 101 (COM 181) and ENG 102 (ENG 102)
- A minimum grade of “C” in all other pre-admission courses and required EDU and EDS courses which include EDU 300 (EDP 202), EDU 305 (EDU 201), EDU 313 (EDU 204), and EDS 360 (EDP 203).
- 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

### ***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.

### ***General Transfer Information***

Students must complete the online application to NKU. There is no application fee for students who are transferring from a KCTCS institution.

**KCTCS Scholars Award:** Students who are KY residents transferring directly from a KCTCS institution with at least 36 hours from that institution and minimum GPA of 3.0, were never enrolled as a degree-seeking student at NKU, and will be enrolled in at least 12 credit hours both fall and spring semester are eligible for a limited number of \$2,500 annual scholarships (\$1,250 per fall and spring). Students must gain admission to NKU by June 15 for fall and November 1 for spring to be eligible for a possible scholarship. Online accelerated programs are not eligible for the KCTCS Scholars Award.

## KCTCS AS TO NKU BS IN MATHEMATICS WITH SECONDARY EDUCATION CHECKLIST

### Kentucky Community and Technical College System

#### Category 1: KCTCS General Education Requirements

KCTCS Course	Course or Category	Credits	NKU Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
COM 181	Basic Public Speaking (OC)	3	CMST 101	
TBS XXX	Arts and Humanities (AH) Heritage	3	TBD XXX	
TBS XXX	Arts and Humanities (AH) Humanities	3	TBD XXX	
PSY 110	General Psychology (SB)	3	PSY 100	
TBS XXX	Social & Behavioral Sciences Course (SB) (other than PSY)	3	TBD XXX	
TBS XXX	Natural Sciences (NS)	3	TBD XXX	
TBS XXX	Natural Sciences with Lab (SL)	4	TBD XXX	
MAT 175	Calculus I (QR)	5	MAT 129	
MAT 185	Calculus II (QR)	5	MAT 229	
	<b>Subtotal General Education Courses</b>	<b>38</b>		

TBS XXX means to be selected by KCTCS student.

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

For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

#### Category 2: KCTCS AS Requirements

KCTCS Course	Course or Category	Credits	NKU Course	Completed
MAT 261	Introduction to Number Theory	3	MAT 310	
MAT 285	Differential Equations	3	MAT 325	
	<b>Subtotal AS Requirement Courses</b>	<b>6</b>		

#### Category 3: KCTCS Electives

KCTCS Course	Course or Category	Credits	NKU Course	Completed
	First-Year Experience	0-3		
EDU 201	Introduction to American Education	3	EDU 305 + EDU 300T	
EDU 204	Technology in the Classroom	3	EDU 313 + EDU 300T	
EDP 202	Human Development and Learning	3	EDU 300	
EDP 203	Teaching Exceptional Learners in Regular Classrooms	3	EDS 360	
MAT 275	Calculus III	4	MAT 329	
	<b>Subtotal Elective Courses</b>	<b>16-19</b>		
	<b>Total Associate Degree Hours</b>	<b>60-63</b>		

Degree Requirement: One course must be selected from the KCTCS identified Cultural Studies course list in the KCTCS catalog.

### Northern Kentucky University

#### Category 4: NKU Major Requirements for the BS in Mathematics with Secondary Education

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
EDU 104	Orientation: Education Profession/Program	1		
EDU 300	Human Growth and Development	3	EDP 202	x
EDU 304 or EDU 530	Reading and Writing Across the Curriculum: Middle Grades or Reading in Junior and Senior High School	3		
EDU 305	Introduction to Education	2	EDU 201	x
EDU 311	Admission Field Experience Secondary	2		
EDU 313	Instructional Technology	2	EDU 204	x
EDU 316	Education in a Multicultural Society	3		
EDU 319	Classroom Climate Management Secondary	1		
EDU 324	Fundamentals of Secondary Education	1		
EDU 325	Educational Assessment Secondary	2		
EDU 333	Teaching Math in 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	EDP 203	x
PSY 100	Introduction to Psychology	3	PSY 110	x
CMST 101	Public Speaking	3	COM 181	x
ENG 102	Advanced College Writing	3	ENG 102	x
MAT 129	Calculus I	4	MAT 175	x
MAT 229	Calculus II	5	MAT 185 (with MAT 275)	x
MAT 329	Calculus III	4	MAT 275	x
MAT 234	Linear Algebra	3		
MAT 302	Introduction to Higher Mathematics	3		
MAT 489	Comprehensive Examination	0		
STA 250	Probability and Statistics I	3		
CSC 270 or CSC 260	Mathematics Software Programming or Object-Oriented Programming	3	CIT 238	
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	MAT 261	x (Need 3 cr)

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
Select 1: MAT 360 MAT 420 MAT 430	Select one course from the following: Numerical Analysis Real Variables I Complex Variables	3		
MAT XXX	Select three additional hours of MAT or STA electives at the 300 level or above	3	MAT 285	x
	<b>Subtotal Major Credit Hours at NKU</b>	<b>59</b>		
	<b>Subtotal Major Credit Hours at KCTCS</b>	<b>38</b>		
	<b>Total Major Credit Hours</b>	<b>97</b>		
	<b>Total Baccalaureate Degree Credit Hours</b>	<b>120-122</b>		

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