



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate of Arts to Bachelor of Science in Mathematics

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Arts (AA) degree at Cincinnati State (CState) and leads to the Bachelor of Science (BS) in Mathematics degree at Northern Kentucky University (NKU).

Applying to the CState2NKU 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 Cincinnati State, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Cincinnati State.

Degree Requirements for Cincinnati State

1) Completion of minimum 62 credit hours, 36 of which from approved Ohio Transfer 36 courses, 2) minimum cumulative GPA 2.0, 3) completion of an FYE course as part of the first 12 credit hours taken at Cincinnati State, and 4) completion of Cooperative Education.

Admission Requirements for NKU

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

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 must have an overall GPA of 2.0 and meet all prerequisites for courses and requirements for the major.

Advising Note

Students in the CState2NKU program should work closely with their advisors when choosing

courses. This document serves as a guide but does not replace academic advising. When choosing Cincinnati State courses, student may also consult the Associate of Arts advising brochure or the catalog for A and B list courses in Arts and Humanities or Social and Behavioral Sciences. Some courses in this document may have prerequisites that are not reflected in the grid. Students should work with their advisor to ensure that prerequisites are met.

CINCINNATI STATE AA TO NKU BS IN MATHEMATICS CHECKLIST

Cincinnati State

Category 1: Ohio Transfer 36 Requirements

CState Course	Course or Category	Credits	NKU Course	Completed
ENG 101	English Composition 1	3	ENG 101	
ENG 102 or ENG 103 or ENG 104 or ENG 105	English Composition 2: Contemporary Issues English Composition 2: Writing about Literature English Composition 2: Technical Communication English Composition 2: Business Communication	3	ENG 102 or (GWR 200G)	
COMM 110	Public Speaking	3	CMST 101	
TBS XXX	Arts/Humanities List A Elective	3	TBD XXX	
TBS XXX	Arts/Humanities List B Elective	3	TBD XXX	
TBS XXX	Social/Behavioral Science List A Elective	3	TBD XXX	
TBS XXX	Social/Behavioral Science List B Elective	3	TBD XXX	
MAT 251	Calculus I	5	MAT 129 + MAT 100T	
TBS XXX	Natural/Physical Science Elective 1	3	TBD XXX	
TBS XXX	Natural/Physical Science Elective 2	3	TBD XXX	
MAT 252	Calculus 2	5	MAT 229	
MAT 253	Calculus 3	5	MAT 329 + MAT 300T	
Subtotal General Education Core		42		

TBS XXX means to be selected by Cincinnati student.

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

Category 2: CState Degree Requirements for the AA and NKU Recommendations

CState Course	Course or Category	Credits	NKU Course	Completed
FYE 1XX	First Year Experience Elective	1	UNV 100T	
HUM 190	Career Exploration Seminar: AA/AS	2	CEP 101	
HUM XXX	Co-op/Internship Elective 1 and Elective 2	2	CEP 300	
IT 101	Programming 1	3	INF 120	
IT 111	Database Design and SQL 1	3	INF 282	
CPDM 120	Fundamentals of Object-Oriented Programming with Python	3	CSC 260	
TBS XXX	Directed Electives	6	TBD XXX	
Total Associate Degree Credit Hours		62		

Northern Kentucky University

Category 3: NKU Major Requirements for the BS in Mathematics

NKU Course	Course	Credits	CState Course	Taken at CState
MAT 129	Calculus I - QR	4	MAT 251	x
MAT 229	Calculus II	5	MAT 252	x
MAT 234	Linear Algebra	3		
MAT 302	Intro to Higher Mathematics	3		
MAT 329	Calculus III	4	MAT 253	x
MAT 393	Career Explorations in Mathematics	1		
MAT 489	Comprehensive Examination	0		
STA 250	Probability and Statistics	3		
CSC 260 OR CSC 270	Object Orient Programming OR Mathematics Software Programming	3	CPDM 120	x
Choose one: MAT 310 MAT 410 MAT 415	Elementary Theory of Numbers Group Theory Rings and Fields	3		
Choose one: MAT 360 MAT 420 MAT 430	Numerical Analysis Real Variables I Complex Variables	3		
TBS XXX	Select 12 hours of additional MAT/STA electives at the 300 level or above. At least 6 of these hours must be MAT courses.	12		
	Subtotal Major Credit Hours at NKU	28		
	Subtotal Major Credit Hours at CState	16		
	Total Major Credit Hours	44		

Category 4: Additional Requirements at NKU

	Category	Credits		
	Subtotal Minor/Focus Hours	12-24		
	Subtotal Elective Credit Hours	6-18		
	Minimum Total Baccalaureate Degree Credit Hours	120		

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