

TRANSFER PATHWAY GUIDE

2021-2022

Associate of Science in Mathematics at Sinclair College to a
Bachelor of Science in Mathematics at Northern Kentucky University

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Science (AS) in Mathematics degree at Sinclair College and leads to the Bachelor of Science (BS) in Mathematics degree at Northern Kentucky University (NKU).

Degree Requirements for Sinclair College

To earn a degree at Sinclair College, a student must complete a minimum of 60 credit hours, attain a minimum cumulative GPA of 2.0, and earn a minimum of 20 credit hours at Sinclair College.

Admission Requirements for NKU

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

Tuition and Scholarships

For information on tuition and scholarships, please visit <https://nku.edu/admissions/adult/online.html>

NKU Contacts

Students can schedule a meeting with an advisor from the College of Arts & Sciences Advising Center at <https://inside.nku.edu/artsci/advisingcenter.html>

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. Students must complete a focus or minor as indicated on the pathway.

SINCLAIR COLLEGE AS IN MATHEMATICS TO NKU BS IN MATHEMATICS CHECKLIST

Sinclair College

Category 1: Sinclair Requirements for the AS in Mathematics

Sinclair Course	Course or Category	Credits	NKU Course	Completed
COM 2206 or COM 2211 or COM 2225	Interpersonal Communication or Effective Public Speaking or Small Group Communication	3	CMST 220 CMST 101 CMST 230	
ENG 1101	English Composition I	3	ENG 101	
MAT 2270	Calculus & Analytic Geometry I	5	MAT 129	
MAT 2280	Calculus & Analytic Geometry II	5	MAT 229	
MAT 2290	Calculus & Analytic Geometry III	5	MAT 329	
MAT 2310 or MAT 2600 and TBS XXX OR CIS 1111 and CIS 2212 and TBS XXX	Elementary Differential Equations and Applied Statistics and Any Course in Catalog Elective (preferred) OR Introduction to Problem Solving & Computer Programming and Java Software Development I and Any Course in Catalog Elective	10-11	MAT 325 STA 250 TBD XXX INF 100T CSC 260 TBD XXX	
MAT 2320 or CIS 2217	Linear Algebra (preferred) or Java Software Development II	3-4	MAT 234 CSC 360	
SCC 1101	First Year Experience	1	UNV 101	
TBS XXX	Ohio Transfer 36: Arts & Humanities Elective	6	TBD XXX	
TBS XXX	Ohio Transfer 36: Natural & Physical Sciences Elective	10	TBD XXX	
TBS XXX	Ohio Transfer 36: Social & Behavioral Sciences Elective	6	TBD XXX	
TBS XXX	Multicultural Elective	3	TBD XXX	
	Total Associate Degree Hours	60-62		

TBS XXX means to be selected by Sinclair College student.

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

The Category 2 table below shows a pathway where preferred mathematics courses are selected in the AS in Mathematics curriculum. Students who select the programming courses in the AS degree can still complete a mathematics major at NKU in 120 total credit hours.

Northern Kentucky University

Category 2: NKU Major Requirements for the BS in Mathematics

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
MAT 129	Calculus I	4	MAT 2270	x
MAT 229	Calculus II	5	MAT 2280	x
MAT 329	Calculus III	4	MAT 2290	x
MAT 194	Mathematical Sciences Seminar	1		
MAT 234	Linear Algebra	3	MAT 2320	x
MAT 302	Introduction to Higher Mathematics	3		
MAT 489	Comprehensive Examination	0		
STA 250	Probability and Statistics	3	MAT 2600	x
CSC 260 OR CSC 270	Object Orient Programming OR Mathematics Software Programming	3	CIS 2212	
Select one: MAT 310 MAT 410 MAT 415	Select one course from the following: Elementary Theory of Numbers Group Theory Rings and Fields	3		
Select one: MAT 360 MAT 420 MAT 430	Select one course from the following: 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	MAT 2310 = MAT 325	x Need 9 additional credit hours
	Total NKU Major Credit Hours	44		
	Less Major Credit Hours from Sinclair	22		
	Subtotal Major Credit Hours at NKU	22		

Category 3: Additional Requirements at NKU

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
	Subtotal Minor Credit Hours Taken at NKU	12-24		
	Subtotal Elective (some 300/400 level) Hours	12-26		
	Total Baccalaureate Degree Credit Hours	120		

Updated September 2021