TRANSFER PATHWAY GUIDE 2023-2024

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 Contact

For more information, students should contact Kim McCoy, Assistant Director of Transfer Services, at <u>mccoyk8@nku.edu</u>.

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.

In addition, the mathematics major at NKU requires that:

- Students must make a C- or better in all courses. At least 20 percent of the total required hours must be taken at NKU.
- At least 9 credit hours toward the major must be completed at NKU
- A double major in mathematics and statistics consists of satisfying the degree requirements of both majors with a minimum of 58 credit hours of courses applicable to either major.
- A student majoring in mathematics and seeking a focus in statistics must complete four additional 300 or 400-level STA courses not used to satisfy the mathematics major.
- Any substitutions in these programs must be made in consultation with the chair of the department.

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	Interpersonal Communication or		CMST 220	
COM 2211 or	Effective Public Speaking or	3	CMST 101	
COM 2225	Small Group Communication		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	Elementary Differential Equations and		MAT 325	
MAT 2600 and	Applied Statistics and		STA 250	
TBS XXX	Any Course in Catalog Elective		TBD XXX	
	(preferred)			
OR	OR	10-11		
CIS 1111 and	Introduction to Problem Solving &		INF 100T	
	Computer Programming and			
CIS 2212 and	Java Software Development I and		CSC 260	
TBS XXX	Any Course in Catalog Elective		TBD XXX	
MAT 2320 or	Linear Algebra (preferred) or	3-4	MAT 234	
CIS 2217	Java Software Development II	5-4	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	C	TBD XXX	
	Sciences Elective	6		
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

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
MAT 129	Calculus I	4	MAT 2270	х
MAT 229	Calculus II	5	MAT 2280	х
MAT 329	Calculus III	4	MAT 2290	х
MAT 234	Linear Algebra	3	MAT 2320	х
MAT 302	Introduction to Higher Mathematics	3		
MAT 393	Career Explorations in Mathematics	1		
MAT 489	Comprehensive Examination	0		
STA 250	Probability and Statistics	3	MAT 2600	х
CSC 260 OR	Object Orient Programming OR	2	CIS 2212	
CSC 270	Mathematics Software Programming	3		
Select one:	Select one course from the following:			
MAT 310	Elementary Theory of Numbers	3		
MAT 410	Group Theory			
MAT 415	Rings and Fields			
Select one:	Select one course from the following:	3		
MAT 360	Numerical Analysis			
MAT 420	Real Variables I			
MAT 430	Complex Variables			
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 2: NKU Major Requirements for the BS in Mathematics

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		

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