# TRANSFER PATHWAY GUIDE 2022-2023

Associate of Applied Science in Cyber Investigation Technology at Sinclair College to a Bachelor of Science in Cybersecurity at Northern Kentucky University

## Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Applied Science (AAS) in Cyber Investigation Technology degree at Sinclair College and leads to the Bachelor of Science (BS) in Cybersecurity 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 <u>https://inside.nku.edu/artsci/advisingcenter.html</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. Students must complete a focus or minor as indicated on the pathway. This major includes a minor in Computer Science.

# SINCLAIR COLLEGE AAS IN CYBER INVESTIGATION TECHNOLOGY TO NKU BS IN CYBERSECURITY CHECKLIST

## Sinclair College

## Category 1: Sinclair Requirements for the AAS in Cyber Investigation Technology

CIS 1107Introduction to Operating Systems3CIS 1107 + CIS 2731 = CIT 130 + CIT 200TCIS 1111Introduction to Problem Solving & Computer Programming3INF 110CIS 1130Network Fundamentals3INF 284CIS 2155Database Management3INF 282CIS 2510Microsoft Windows Server Operating System3CIT 200TCIS 2550Linux Operating System3CIT 200TCIS 2630Securing a Windows Network Environment3CYS 200TCIS 2640Network Security3CYS 200TCIS 2731A+ Hardware & Software4CIS 1107 + CIS 2731 = CIT 130 + CIT 200TCIS 2808Introduction to Computer Forensics3CYS 200TCIS 2111Constitutional Law & Evidentiary Procedures3JUS 294CIS 2209Computer Crime3JUS 294CIS 2209Computer Crime3LS 294CIS 2209Computer Crime3ENG 101MAT 1120 or Thiciples of Macroeconomics3ECO 2100MAT 1120 or TBS XXXOhio Transfer 36: Mathematics Elective Ohio Transfer 36: Mathematics3TBD XXXTBS XXXOhio Transfer 36: Mathematics3TBD XXX	Sinclair Course	Course or Category	Credits	NKU Course	Completed
CIS 1107Introduction to Operating Systems3CIT 130 + CIT 200TCIS 1111Introduction to Problem Solving & Computer Programming3INF 110CIS 1130Network Fundamentals3INF 284CIS 2165Database Management3INF 282CIS 2510Microsoft Windows Server Operating System3CIT 200TCIS 2550Linux Operating System3CIT 171 + CIT 200TCIS 2630Securing a Windows Network Environment3CYS 200TCIS 2640Network Security3CYS 200TCIS 2731A+ Hardware & Software4CIS 2731 = CIT 130 + CIT 200TCIS 2808Introduction to Computer Forensics3CYS 200TCIS 21103Constitutional Law & Evidentiary Procedures3JUS 294CIS 2209Computer Crime3JUS 294CIS 2225Small Group Communication3CMST 230ECO 200English Composition I3ENG 101MAN 2150Management & Organizational Behavior3MGT 205MAT 1120 or TBS XXXOhio Transfer 36: Arts & Humanities3TBD XXX				CIS 1107 +	
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CIS 2510System3CIT 2001CIS 2550Linux Operating System3CIT 171 + CIT 200TCIS 2630Securing a Windows Network Environment3CYS 200TCIS 2640Network Security3CYS 200TCIS 2731A+ Hardware & Software4CIS 1107 + CIT 200TCIS 2808Introduction to Computer Forensics3CYS 200TCIS 21103Constitutional Law & Evidentiary Procedures3JUS 294CIS 2209Computer Crime3JUS 294CIS 2209Computer Crime3JUS 294CIS 2209Computer Crime3JUS 294CIS 2110Instice3LIS 294CIS 2209Computer Crime3JUS 294CIS 2110Ethics & Professionalism in Criminal Justice3CMST 230CIS 2111Ethics & Organizational3ECO 200CIS 2110Frinciples of Macroeconomics3ECO 200CIS 2110English Composition I3ENG 101MAT 1120 or TBS XXXOhio Transfer 36: Mathematics Plective Statistics which equates to STA 205)3TBD XXX	CIS 2165	Database Management	3	INF 282	
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	TBS XXX		3	TBD XXX	
		Total Associate Degree Hours	61	l	

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.

# Northern Kentucky University

## **Category 2: NKU Additional General Education Requirements**

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
ENG 102	Advanced College Writing	3	ENG 1201	
TBS XXX	Oral Communication	3		
TBS XXX	Natural Science	4		
TBS XXX	Cultural Pluralism	3		
TBS XXX	Individual & Society	3		
TBS XXX	Culture & Creativity	3		
TBS XXX	Global Viewpoints	3		
	Subtotal General Education Courses	22		

## Category 3: NKU Requirements for the BS in Cybersecurity

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CYS 310	Cybersecurity Risk Management	3		
CYS 444	Software Security	3		
CIT 130	Information Technology Fundamentals	3	CIS 1107 + CIS 2731	х
CIT 171	Introduction to Linux	1	CIS 2550	х
CIT 285	Cybersecurity Fundamentals	3	CIS 2670	
CIT 371	Unix Systems	3		
CIT 485	Advanced Cybersecurity	3		
CYS 385	Cybersecurity Analysis	3		
ASE 230	Server-Side Programming	3		
CSC 260	Object-Oriented Programming I	3	CIS 2212	
CSC 350	Database Programming	3		
CSC 360	Object-Oriented Programming II	3	CIS 2217	
CSC 362	Computer Systems	3		
CSC 364	Data Structures and Algorithms	3		
CSC 460	Operating Systems	3		
CSC 482	Computer Security	3		
BIS 300	Management Information Systems	3		
BIS 382	Principles of Information Security	3		
INF 100	Orientation to College of Informatics	1	Waived with AAS degree	х
INF 120	Elementary Programming	3	CIS 1202	
INF 201	Foundations of Informatics Professionals	1		
INF 284	Introduction to Computer Networks	3	CIS 1130	х
INF 286	Introduction to Web Development	3	CIS 1350	

NKU	Course	Credits	Sinclair	Taken at
Course			Course	Sinclair
MAT 185	Introductory Discrete Mathematics	3		
MAT 483	Cryptology	3		
PHI 310	Information Ethics	3		
STA 205	Statistical Methods	3	MAT 1450	
Select 6 cr:	Select 6 credit hours from the following:			
ASE 456	Cross-Platform Development (3 cr)			
BIS 330	IT Project Management (3 cr)			
CIT 381	Raspberry PI Based IoT (3cr)			
CIT 383	Scripting I (3 cr)			
CIT 396	Computer Information Technology Practicum (0-3 cr)			
CIT 430	Computer Forensics (3 cr)			
CIT 438	Cloud Computing (3 cr)			
CIT 470	Advanced Network and System Administration (3 cr)			
CIT 472	Database Administration (3 cr)			
CIT 483	Scripting II (3 cr)			
CIT 484	Network Security (3 cr)			
CMST 370	Advanced Public Speaking (3 cr)	c		
CSC 396	Computer Science Practicum (0-3 cr)	6		
CSC 415 or	Android Mobile App Development (3 cr) or			
CSC 416	iOS Mobile App Development (3 cr)			
CSC 425	Artificial Intelligence (3 cr)			
CYS 305	Peer Teaching Assistant Training & Practicum (3 cr)			
CYS 330	Introduction to Ethical Hacking (3 cr)			
CYS 392	Intermediate Research Experience in CYS (0-3 cr)			
CYS 394	Intermediate Topics: Cybersecurity (1-3 cr)			
CYS 396	Cybersecurity Practicum (0-3 cr)			
CYS 399	Intermediate Independent Study: CYS (1-3 cr)			
CYS 492	Advanced Research Experience in CYS (0-3 cr)			
CYS 494	Advanced Topics: Cybersecurity (1-3 cr)			
CYS 499	Advanced Independent Study: CYS (1-3 cr)			
	Experiential learning experience. See NKU Catalog or			
	talk to an NKU advisor about options.			
	Subtotal NKU Core Credit Hours	81		
	Less Core Credit Hours from Sinclair	8		
	Subtotal Core Credit Hours at NKU	73		
	Total Baccalaureate Degree Credit Hours	156		

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