

# TRANSFER PATHWAY GUIDE

## 2023-2024

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 <https://inside.nku.edu/artsci/advisingcenter.html>. Students can also contact Kim McCoy, Assistant Director of Transfer Services, at [mccoyk8@nku.edu](mailto:mccoyk8@nku.edu).

### ***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**

<b>Sinclair Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>NKU Course</b>	<b>Completed</b>
CIS 1107	Introduction to Operating Systems	3	CIS 1107 + CIS 2731 = CIT 130 + CIT 200T	
CIS 1111	Introduction to Problem Solving & Computer Programming	3	INF 110	
CIS 1130	Network Fundamentals	3	INF 284	
CIS 2165	Database Management	3	INF 282	
CIS 2510	Microsoft Windows Server Operating System	3	CIT 200T	
CIS 2550	Linux Operating System	3	CIT 171 + CIT 200T	
CIS 2630	Securing a Windows Network Environment	3	CYS 200T	
CIS 2640	Network Security	3	CYS 200T	
CIS 2731	A+ Hardware & Software	4	CIS 1107 + CIS 2731 = CIT 130 + CIT 200T	
CIS 2808	Introduction to Computer Forensics	3	CYS 200T	
CJS 1103	Constitutional Law & Evidentiary Procedures	3	JUS 294	
CJS 2111	Ethics & Professionalism in Criminal Justice	3	JUS 294	
CJS 2209	Computer Crime	3	JUS 294	
CJS 2295	Criminal Justice Science Seminar	3	JUS 294	
COM 2225	Small Group Communication	3	CMST 230	
ECO 2160	Principles of Macroeconomics	3	ECO 200	
ENG 1101	English Composition I	3	ENG 101	
MAN 2150	Management & Organizational Behavior	3	MGT 205	
MAT 1120 or TBS XXX	Business Mathematics or Ohio Transfer 36: Mathematics Elective (Suggest MAT 1450: Introductory Statistics which equates to STA 205)	3	STA 100G TBD XXX	
TBS XXX	Ohio Transfer 36: Arts & Humanities	3	TBD XXX	
	<b>Total Associate Degree Hours</b>	<b>61</b>		

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		
<b>Subtotal General Education Courses</b>		<b>22</b>		

### 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	x
CIT 171	Introduction to Linux	1	CIS 2550	x
CIT 371	Unix Systems	3		
CYS 285	Cybersecurity Fundamentals	3	CIS 2670	
CYS 330	Introduction to Ethical Hacking	3		
CYS 385	Cybersecurity Analysis I	3		
CYS 485	Cybersecurity Analysis II	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	x
INF 120	Elementary Programming	3	CIS 1202	
INF 201	Foundations of Informatics Professionals	1		
INF 284	Introduction to Computer Networks	3	CIS 1130	x

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
INF 286	Introduction to Web Development	3	CIS 1350	
MAT 185	Introductory Discrete Mathematics	3		
PHI 310	Information Ethics	3		
STA 205	Statistical Methods	3	MAT 1450	
Select 6 cr:	Select 6 credit hours from the following:	6		
ASE 456	Cross-Platform Development (3 cr)			
BIS 330	IT Project Management (3 cr)			
CIT 381	Raspberry PI Based IoT (3 cr)			
CIT 383	Scripting I (3 cr)			
CIT 396	Computer Information Technology Practicum (0-3 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)			
CMST 370	Advanced Public Speaking (3 cr)			
CSC 396	Computer Science Practicum (0-3 cr)			
CSC 415	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 430	Computer Forensics (3 cr)			
CYS 484	Network Security (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)			
MAT 483	Cryptology (3 cr)			
	Experiential learning experience. See NKU Catalog or talk to an NKU advisor about options.			
	<b>Subtotal NKU Core Credit Hours</b>	<b>81</b>		
	<b>Less Core Credit Hours from Sinclair</b>	<b>8</b>		
	<b>Subtotal Core Credit Hours at NKU</b>	<b>73</b>		
	<b>Total Baccalaureate Degree Credit Hours</b>	<b>156</b>		

Updated April 2023