

TRANSFER PATHWAY GUIDE

2025-2026

Associate of Applied Science in Computer Information Systems/Secure System Administration at Sinclair College to a Bachelor of Science in Information Technology at Northern Kentucky University

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Applied Science (AAS) in Computer Information Systems/Secure System Administration degree at Sinclair College and leads to the Bachelor of Science (BS) in Information Technology 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.

The Information Technology, B.S. – Cloud and Systems Administration Track is offered both face-to-face and online.

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 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, including earning a C- or better in all courses that count toward the major or minor. Students must complete a focus or minor as indicated on the pathway.

Credits for Certifications: Students with a current certification at the time of registering for classes will receive credit for equivalent NKU courses based on the following course mappings.

Cisco

NKU students who have taken and passed an examination from Cisco, and hold a current certification (at the time of registering for classes) will receive credit for an equivalent NKU course. The chart below shows the semester credit hours and the equivalent NKU course.

EXAMINATION	EQUIVALENT NKU COURSE	TOTAL SEMESTER HOURS
CCNA Exam (200-301)*	CIT 247 Networking Fundamentals CIT 447 Network Design/Troubleshooting	6
CCNP Security Core Exam (350-701)*	CYS 484 Network Security	3
Certified Entry Networking	CIT 247 Networking Fundamentals	3

*Credit given for exams taken after Summer 2020

Computing Technology Industry Association (CompTIA)

NKU students who have taken and passed an examination from CompTIA, and hold a current certification (at the time of registering for classes) will receive credit for an equivalent NKU course. The chart below shows the semester credit hours and the equivalent NKU course.

EXAMINATION	EQUIVALENT NKU COURSE	TOTAL SEMESTER HOURS
Security+ (versions SY0-501 and later)	CYS 285 Cybersecurity Fundamentals	3
Network+	INF 284 Introduction to Computer Networks	3
Linux+	CIT 371 Unix Systems	3

Note: Students with Security+ exams SY0-401 and before will be required to take CYS 285.

**SINCLAIR COLLEGE AAS IN COMPUTER INFORMATION SYSTEMS/SECURE SYSTEM
ADMINISTRATION TO NKU BS IN INFORMATION TECHNOLOGY CHECKLIST**

Sinclair College

**Category 1: Sinclair Requirements for the AAS in Computer Information Systems/Secure System
Administration**

Sinclair Course	Course or Category	Credits	NKU Course	Completed
ACC 1100 or ACC 1210	Survey of Accounting or Introduction to Financial Accounting	3	ACC 100T ACC 200	
BIS 1120	Introduction to Software Applications	3	BIS 101	
CIS 1107	Introduction to Operating Systems	3	CIT 100T	
CIS 1111	Introduction to Problem Solving & Computer Programming	3	INF 110	
CIS 1130	Network Fundamentals	3	INF 284	
CSI 1140	Information Systems Analysis & Design	3	BIS 310	
CIS 2170 or CIS 2178	Computer Information Systems Internship Computer Information Systems Capstone	3	CEP 300 CIT 200T	
CIS 2165	Database Management	3	INF 282	
CIS 2510	Microsoft Windows Server Operating System	3	CIT 200T	
CIS 2515	Windows Network Infrastructure	3	CIS 2515 + CIS 2520 = CIT 271 + CIT 200T	
CIS 2520	Windows Server	3	CIS 2515 + CIS 2520 = CIT 271 + CIT 200T	
CIS 2550	Linux Operating System	3	CIT 171 + CIT 200T	
CIS 2630 or CIS 2650	Securing a Windows Network Environment or Ethical Hacker	3	CYS 200T CYS 330	
CIS 2640	Network Security	3	CYS 200T	
COM 2211	Effective Public Speaking	3	CMST 101	
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 (choose MAT 1450 for NKU major)	3	STA 100G, TBD XXX or (STA 205)	
SCC 1101	First Year Experience	1	UNV 101	
TBS XXX	Ohio Transfer 36: Arts & Humanities	3	TBD XXX	
Total Associate Degree Hours		61		

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	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	19		

Category 3: NKU Major Requirements for the BS in Information Technology

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
INF 100	Orientation to College of Informatics	1	Waived for students with AAS degree	x
INF 120	Elementary Programming	3	CIS 1202	
INF 282	Introduction to Databases	3	CIS 2165	x
INF 284	Introduction to Computer Networks	3	CIS 1130	x
INF 286	Introduction to Web Development	3	CIS 1350	
CIT 130	Information Technology Fundamentals	3	CIS 1107 + CIS 2731	
CIT 171	Intro to Linux	1	CIS 2550	x
CIT 271	Windows Administration	3	CIS 1510 + CIS 2510	
CIT 371	Linux System Administration	3		
CIT 383	Scripting I	3		
CYS 285	Cybersecurity Fundamentals	3	CIS 2670	
STA 205 or STA 250	Statistical Methods or Probability and Statistics	3	MAT 1450	Can be taken at Sinclair
PHI 310	Information Ethics	3		
ENG 347	Technical Writing	3		
	Select one track from following tracks: Network and Administration Track Cloud and System Administration Track Cybersecurity Track General Track	18		

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
	(Required courses are listed in Categories 5-8 tables below.)			
	Total NKU Major Credit Hours	56		
	Less Major Credit Hours from Sinclair	8-11		
	Subtotal Major Credit Hours at NKU	45-48		

Category 4: Additional Requirements at NKU

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
	Subtotal Minor/Focus Credit Hours Note: Any NKU focus or minor may be selected. Information Systems and Computer Science are common choices and require 9-15 additional credit hours beyond the courses taken for the major.	9-24		
	Minimum Total Baccalaureate Degree Credit Hours	135		

Note: Depending on track, focus/minor, and courses chosen, total credit hours for the baccalaureate degree may be higher and students may need additional electives to meet the 45-hour upper level graduation requirement. Work with your NKU advisor to make sure you meet all graduation requirements.

Category 5: NKU Major Requirements for the Network and System Administration Track

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CIT 247	Networking Fundamentals	3	CIS 2416	
CIT 438	Cloud Computing	3		
CIT 447	Network Design/Troubleshooting	3		
CIT 470	Advanced Network and System Administration	3		
CYS 484	Network Security	3		
TBS XXX	Select one 300/400-level CIT course not included above. CSC 481 can count toward this elective.	3		
	Additional Credit Hours for Track	18		

Category 6: NKU Major Requirements for the Cloud and System Administration Track

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CIT 436	Web Server Administration	3		
CIT 438	Cloud Computing	3		

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CIT 470	Advanced Network and System Administration	3		
CIT 472	Database Administration	3		
TBS XXX	Select six hours of CIT 300/400 level courses not listed above; CYS 439 and CSC 481 can count toward these electives.	6		
	Additional Credit Hours for Track	18		

Category 7: NKU Major Requirements for the Cybersecurity Track

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CYS 330	Introduction to Ethical Hacking	3	CIS 2416 or CIS 2650	
CYS 385	Cybersecurity Analysis I	3		
CYS 484	Network Security	3		
CYS 485	Advanced Cybersecurity	3		
TBS XXX	Select two 300/400-level CIT or CYS courses not included above; BIS 382, CSC 481; CSC 482, and CSC 483 may count toward these electives	6		
	Additional Credit Hours for Track	18		

Category 8: NKU Major Requirements for the General Track

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CIT 436 or CIT 438	Web Server Administration or Cloud Computing	3		
CIT 470 or CIT 472	Advanced Network and System Administration or Database Administration	3		
CYS 330 or CYS 385	Introduction to Ethical Hacking or Cybersecurity Analysis I	3		
TBS XXX	Select 9 credit hours of 300/400 CIT or CYS coursework not taken above. CIT 247 and CSC 481 may count toward these electives. No more than 6 hours may be taken from CIT/CYS 392/399/492/499.	9		
	Additional Credit Hours for Track	18		

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