TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE
2023-2024

Associate of Applied Science in Computer and Information Technologies – Network Administration Track to Bachelor of Science in Computer Information Technology – All Tracks

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Applied Science (AAS) in Computer and Information Technologies (Network Administration Track) degree at a Kentucky Community and Technical College System (KCTCS) institution and leads to the Bachelor of Science (BS) in Computer Information Technology degree at Northern Kentucky University (NKU).

There are two pathways in this document. The first pathway is built using the Microsoft Windows Administration Course Sequence in the Network Administration Track at KCTCS and second pathway is built using the Cisco Networking Associate Course Sequence in the Network Administration Track. Each pathway leads into a Computer Information Technology degree at NKU.

Applying to the KCTCS2NKU Program

Students can apply to participate in the pathway program by completing the online application on the NKU transfer webpage. Students must be enrolled in at least six credit hours at their KCTCS institution, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at their KCTCS institution.

Degree Requirements for KCTCS

1) Minimum cumulative GPA 2.0, 2) minimum of 25 percent of credit hours required for the degree earned at the institution awarding the degree, and 3) demonstration of digital literacy.

Admission Requirements to NKU

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

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

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.

General Transfer Information

Students must complete the online application to NKU. There is no application fee for students who are transferring from a KCTCS institution.

KCTCS Scholars Award: Students who are KY residents transferring directly from a KCTCS institution with at least 36 hours from that institution and minimum GPA of 3.0, were never enrolled as a degree-seeking student at NKU, and will be enrolled in at least 12 credit hours both fall and spring semester are eligible for a limited number of $2,500 annual scholarships ($1,250 per fall and spring). Students must gain admission to NKU by June 15 for fall and November 1 for spring to be eligible for a possible scholarship. Online accelerated programs are not eligible for the KCTCS Scholars Award.

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.

KCTCS AAS IN COMPUTER & INFORMATION TECHNOLOGIES – NETWORK ADMINISTRATION TRACK (MICROSOFT WINDOWS ADMINISTRATION) TO NKU BS IN COMPUTER INFORMATION TECHNOLOGY CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements

KCTCS Course	Course or Category	Credits	NKU Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
MAT 150 or MAT 161	College Algebra (QR) or Statistics and Algebra (QR)	3-5	(MAT 102 or MAT 103) + MAT 100T or MAT 101 + MAT 102	
TBS XXX	Social & Behavioral Sciences (SB)	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) Heritage or Humanities	3	TBD XXX	
TBS XXX	Natural Science (NS or SL)	3	TBD XXX	
	Subtotal General Education Courses	**15-17**		

TBS XXX means to be selected by KCTCS student.
TBD XXX means to be determined by NKU based on course selected.

A grade of A or B in MAT 150 equates to MAT 103 + MAT 100T. Grade of C or D in MAT 150 equates to MAT 102 + MAT 100T.

Students who do not complete a science course with a lab will be required to take an additional science with a lab at NKU.

Category 2: KCTCS AAS Requirements for Computer and Information Technologies – Network Administration Track (Microsoft Windows Administration)

KCTCS Course	Course or Category	Credits	NKU Course	Completed
CIT 105	Introduction to Computers	3	BIS 101	
CIT 111	Computer Hardware and Software	4	CIT 130	
CIT 217 or TBS XXX	UNIX/Linux Net Infrastructure (CIT Technical) or other CIT Technical Elective	3	(CIT 171 + CIT 100T) or TBS XXX	
CIT 160 or CIT 161	Intro to Networking Concepts (Level I Networking) or Introduction to Networks (Level I Networking)	4	INF 284	
CIT 120	Computational Thinking	3	INF 100T	
CIT 141 or CIT 142 or CIT 143 or	Level I Programming Language Course: PHP I or C++ I or C# I or	3	 INF 120 INF 120 INF 120	

KCTCS Course	Course or Category	Credits	NKU Course	Completed
CIT 144 or CIT 145 or CIT 146 or CIT 147 or CIT 148 or CIT 149	Python I or Perl I or Swift I or Programming I: Language or Visual Basic I or Java I		INF 120 INF 120 INF 120 INF 120 INF 120 CSC 260	
CIT 150 or CIT 155	Internet Technologies (CIT Technical) or Web Page Development (CIT Technical)	3	INF 286	
CIT 170	Database Design Fundamentals	3	INF 282	
CIT 180 + CIT 182	Security Fundamentals + Perimeter Defense (CIT Technical)	3 3	CYS 285 + CIT 100T	
CIT 290 or CIT 291 or CIT 293 or CIT 297	Internship or CIT Capstone or CIT Employability Studies or CIT Professional Preparation	1-3	BIS 310 BIS 310 INF 201	
TBS XXX	Choose one sequence: Microsoft Windows Administration or Cisco Network Associate UNIX/Linux Platform (see tables 3-5 below for details)	12-14		
	Subtotal AAS Requirement Courses	**45-49**		
	Total Associate Degree Hours	**60-66**		

Category 3: KCTCS Microsoft Windows Administration

NKU Course	Course or Category	Credits	NKU Course	Completed
CIT 213	Microsoft Client Configuration	3	CIT 200T	
CIT 261	MS Active Directory Services	3	CIT 200T	
CIT 262	MS Network Infrastructure	3	INF 284	
CIT 264	Microsoft Server Management	3	CIT 271	
	Subtotal Sequence Credit Hours	**12**		

Category 4: KCTCS Cisco Networking Associate

NKU Course	Course or Category	Credits	NKU Course	Completed
CIT 167	Switching & Routing Essentials	4	CIT 247	
CIT 212	Connecting and Scaling Networks	4	INF 200T	
CIT 227	Introduction to UNIX/Linux Administration	3	CIT 171	
TBS XXX	Approved Network Elective Course or Approved Security Elective Course	3	TBD XXX	
	Subtotal Sequence Credit Hours	**14**		

Category 5: KCTCS UNIX/Linux Platform

NKU Course	Course or Category	Credits	NKU Course	Completed
CIT 227	Introduction to UNIX/Linux Administration	3	CIT 171	
CIT 228	Advanced UNIX/Linux Administration	3		
CIT 267	UNIX/Linux Network Services	3		
CIT 286	UNIX/Linux OS Security	3	CIT 200T	
	Subtotal Sequence Credit Hours	**12**		

Northern Kentucky University

Category 6: NKU Additional General Education Courses

NKU Course	Course or Category	Credits	KCTCS Course	Taken at KCTCS
ENG 102	Advanced College Writing	3	ENG 102	
CMST 101	Public Speaking	3	COM 181	
TBS XXX	Science with Lab	4		
TBS XXX	Self & Society	6		
TBS XXX	Culture & Creativity	3		
TBS XXX	Global Viewpoints	3		
	Subtotal General Education Credit Hours	**22**		

Category 7: NKU Major Requirements for BS in Computer Information Technology

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
INF 100	Orientation to College of Informatics	1	Waived for students with AAS degree	
INF 120	Elementary Programming	3	CIT 141 or CIT 142 or CIT 143 or CIT 144 or CIT 145 or CIT 146 or CIT 147 or CIT 148 or CS 115	x
INF 282	Introduction to Databases	3	CIT 170	x
INF 284	Introduction to Computer Networks	3	CIT 160 or CIT 161	x
INF 286	Introduction to Web Development	3	CIT 150 or CIT 155	x
CIT 130	Information Technology Fundamentals	3	CIT 111	x
CIT 171	Introduction to Linux	1	CIT 217	x
CIT 271	Windows Administration	3	CIT 264	(may be

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
				comple ted)
CIT 371	Unix Systems	3		
CIT 383	Scripting I	3		
CYS 285	Cybersecurity Fundamentals	3	CIT 180 +CIT 182 = CYS 285 +CIT 100T	x
STA 205 or STA 250	Statistical Methods or Probability and Statistics	3	STA 220 or (MAT 151 or STA 151 or MAT 161) + STA 251	
PHI 310	Information Ethics	3		
ENG 347	Technical Writing	3	ENG 204	
	Select one track from following tracks: Network and Administration Track Cloud and System Administration Track Cybersecurity Track (Required courses are listed in Categories 9-11 tables below.)	18-21		
	Subtotal Major Credit Hours at NKU	**30-36**		
	Subtotal Major Credit Hours KCTCS	**22**		
	Total Major Credit Hours	**52-58**		

Category 8: Additional Requirements at NKU

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
	Electives	0-8		
	Subtotal Focus/Minor Credit Hours	12-24		
	Total Baccalaureate Degree Credit Hours	**120-122**		

Note: Any NKU focus or minor may be selected. Information Systems and Computer Science are common choices and require only 9-15 additional credit hours beyond the major.

Note: Depending on track, focus/minor, and courses chosen, 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 9: NKU Major Requirements for the Network and System Administration Track

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
CIT 247	Networking Fundamentals	3	CIT 167	(may be complete d)

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
CIT 447	Network Design/Troubleshooting	3		
CIT 470	Advanced Network and System Administration	3		
CYS 484	Network Security	3		
CIT XXX	300/400-level CIT Course (not listed above)	3		
CIT XXX	300/400-level CIT Course (not listed above)	3		
	Additional Credit Hours for Track	**18**		

Category 10: NKU Major Requirements for the Cloud and System Administration Track

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
CIT 436	Web Server Administration	3		
CIT 438	Cloud Computing	3		
CIT 470	Advanced Network and System Administration	3		
CIT 472	Database Administration	3		
CIT XXX or CYS 439	Add two electives from CIT 300/400 or CYS 439	6		
	Additional Credit Hours for Track	**18**		

Category 11: NKU Major Requirements for the Cybersecurity Track

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
CYS 330	Introduction to Ethical Hacking	3		
CYS 385	Cybersecurity Analysis I	3		
CYS 484	Network Security	3		
CYS 485	Advanced Cybersecurity	3		
CIT/CYS XXX	Two 300/400-level CIT or CYS courses (not included above); BIS 382, CSC 482, and CSC 483 may count toward these electives	6		
TBS XXX	300/400-level CIT or CYS Course (not listed above)	3		
	Additional Credit Hours for Track	**21**		

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