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## TWO DEGREES, ONE PATH

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### **TRANSFER PATHWAY GUIDE 2023-2024**

Associate of Applied Science in Computer and Information Technologies –  
Information Security 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 (Information Security Track) degree at the Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Computer Information Technology degree at Northern Kentucky University (NKU).

#### ***Applying to the Gateway2NKU 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 Gateway CTC, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Gateway CTC.

#### ***Degree Requirements for GCTC***

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. In some cases, 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 GCTC.

**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.

<b>EXAMINATION</b>	<b>EQUIVALENT NKU COURSE</b>	<b>TOTAL SEMESTER HOURS</b>
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.

<b>EXAMINATION</b>	<b>EQUIVALENT NKU COURSE</b>	<b>TOTAL SEMESTER HOURS</b>
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.

**GCTC AAS IN COMPUTER & INFORMATION TECHNOLOGIES – INFORMATION SECURITY TRACK  
TO NKU BS IN COMPUTER INFORMATION TECHNOLOGY CHECKLIST**

**Gateway Community and Technical College**

**Category 1: GCTC General Education Requirements**

<b>GCTC Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>NKU Course</b>	<b>Completed</b>
ENG 101	Writing I (WC)	3	ENG 101	
MAT 150	College Algebra (QR)	3	(MAT 102 or MAT 103) + MAT 100T	
TBS XXX	Social & Behavioral Sciences (SB)	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) Heritage or Humanities	3	TBD XXX	
TBS XXX	Natural Science Course (NS)	3	TBD XXX	
	<b>Subtotal General Education Courses</b>	<b>15</b>		

TBS XXX means to be selected by GCTC student.

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

Students can take MAT 150 + STA 220 to satisfy the QR general education requirement at Gateway and the STA 205 requirement for the major at NKU. A grade of A or B in MAT 150 equates to MAT 103 + MAT 100T at NKU. A 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 may be required to take an additional science with a lab at NKU.

**Category 2: GCTC AAS Requirements for Computer & Information Technologies – Information Security Track**

<b>GCTC Course</b>	<b>Course or Category</b>	<b>Credits</b>	<b>NKU Course</b>	<b>Completed</b>
CIT 105	Introduction to Computers	3	BIS 101	
CIT 111	Computer Hardware and Software	4	CIT 130	
CIT 227	Introduction to UNIX/Linux Administration	3	CIT 171 + CIT 100T	
CIT 160	Intro to Networking Concepts (Level I Networking)	4	INF 284	
CIT 120	Computational Thinking	3	INF 100T	
CIT 149	Java I	3	CSC 260	
CIT 167	Routing & Switching Essentials (Network Elective)	4	CIT 247	
CIT 170	Database Design Fundamentals	3	INF 282	
CIT 180 + CIT 182	Security Fundamentals + Perimeter Defense	3 3	CYS 285 + CIT 100T	
CIT 184	Attacks and Exploits	3	CIT 100T	
CIT 261	Microsoft Server Configuration (CIT Technical)	3	CIT 200T	

GCTC Course	Course or Category	Credits	NKU Course	Completed
CIT 262	Microsoft Server Administration (Network Elective)	3	INF 284	
CIT 284	Computer Forensics	3	CIT 200T	
CIT 293	CIT Employability Studies	1	INF 201	
	<b>Total Associate Degree Hours</b>	<b>61</b>		

### Category 3: Additional Gateway Requirements for Core General Education Certification

In addition to completing the requirements of the AAS degree, students can complete additional courses from these categories in order to satisfy the general education requirements at NKU. If a student completes the AAS degree and transfers on to NKU, they will need to take six general education courses in addition to the required major courses.

GCTC Course	Course or Category	Credits	NKU Course	Taken at GCTC
ENG 102	Writing II (WC)	3	ENG 102	
TBS XXX	Oral Communication (OC)	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) Heritage or Humanities (depending on Gen Ed selected above)	3	TBD XXX	
STA 220	Statistics (QR)	3	STA 205	
TBS XXX	Social & Behavioral Science (SB) (different from the discipline taken in Category 1)	3	TBD XXX	
TBS XXX	Choose either an additional Natural Science course or an additional Social & Behavioral Science course	3	TBD XXX	
TBS XXX	Natural Science Laboratory (SL)	1	TBD XXX	
	<b>Subtotal General Education Credit Hours</b>	<b>19</b>		

## Northern Kentucky University

### Category 4: NKU Additional General Education Courses

NKU Course	Course or Category	Credits	GCTC Course	Taken at GCTC
ENG 102	Writing II	3	ENG 102	
TBS XXX	Oral Communication	3		
TBS XXX	Science with Lab	4		
TBS XXX	Self & Society	6		
TBS XXX	Culture & Creativity	3		
TBS XXX	Global Viewpoints	3		
	<b>Subtotal General Education Credit Hours</b>	<b>22</b>		

### Category 5: NKU Major Requirements for BS in Computer Information Technology

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
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	
CIT 130	Information Technology Fundamentals	3	CIT 111	x
CIT 171	Introduction to Linux	1	CIT 217	x
CIT 271	Windows Administration	3	CIT 215 or CIT 216 or CIT 264	
CYS 285	Cybersecurity Fundamentals	3	CIT 180 + CIT 182 = CYS 285 + CIT 100T	x
CIT 371	Unix Systems	3		
CIT 383	Scripting I	3		
STA 205 or STA 250	Statistical Methods or Probability and Statistics	3	STA 220	
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 7 - 9 tables below.)	18		
	<b>Subtotal Major Credit Hours at NKU</b>	<b>39</b>		
	<b>Subtotal Major Credit Hours GCTC</b>	<b>16</b>		
	<b>Total Major Credit Hours</b>	<b>56</b>		

#### Category 6: Additional Requirements at NKU

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
	<b>Subtotal Minor Credit Hours</b>	<b>12-24</b>		
	<b>Subtotal Elective Credit Hours (300 level or above)</b>	<b>0</b>		
	<b>Minimum Total Baccalaureate Degree Credit Hours</b>	<b>133-148</b>		

Notes: 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.

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.

Students must choose a track as part of the Computer Information Technology major. The course requirements for the tracks are listed in Categories 7-9 tables below.

**Category 7: NKU Major Requirements for the Network and System Administration Track**

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
CIT 247	Networking Fundamentals	3	CIT 167	x
CIT 438	Cloud Computing	3		
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		
	<b>Additional Credit Hours for Track</b>	<b>18</b>		

**Category 8: NKU Major Requirements for the Cloud and System Administration Track**

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
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		
	<b>Additional Credit Hours for Track</b>	<b>18</b>		

**Category 9: NKU Major Requirements for the Cybersecurity Track**

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
CYS 330	Introduction to Ethical Hacking	3		
CYS 385	Cybersecurity Analysis I	3		

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
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		
	<b>Additional Credit Hours for Track</b>	<b>18</b>		

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