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## TWO DEGREES, ONE PATH

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### **TRANSFER PATHWAY GUIDE 2025-2026**

Associate in Science to Bachelor of Science in Cybersecurity

#### ***Overview***

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at the Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Cybersecurity 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. Completion of minimum 60 credit hours
2. Minimum cumulative GPA 2.0
3. Minimum of 15 credit hours earned at the institution awarding the degree,
4. Demonstration of digital literacy
5. College success requirement

#### ***Admission Requirements to NKU***

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

#### ***Degree Requirements for NKU***

To earn a bachelor's degree at NKU, students must:

1. Complete a minimum of 120 credit hours
2. Complete at least 25% of the credit hours required at NKU
3. Complete the last 30 credit hours at NKU
4. Complete at least 45 credit hours numbered 300 or above
5. Minimum 2.0 cumulative GPA across all major coursework
6. Meet all requirements for the major
7. Completion of a minor, focus, or second major (if required by major)

### **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 annual scholarships (fall and spring only). 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.

Tuition and scholarship information specific to transfer students can be viewed on the [NKU Adult & Transfer Center website](#).

### **Credit for Prior Learning**

**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**

##### **Amazon Web Services (AWS)**

NKU students who have completed and passed the AWS Certified Cloud Practitioner certification will receive credit for an equivalent NKU course. Students must submit proof of successful completion of the program. The chart below shows the semester credit hours and the equivalent NKU course.

EXAMINATION	EQUIVALENT NKU COURSE	TOTAL SEMESTER HOURS
AWS Certified Cloud Practitioner	CIT 300T Computer Information Technology Transfer Elective	3

#### **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
A+	CIT 130 Information Technology Fundamentals	3

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

## GCTC AS TO NKU BS IN CYBERSECURITY CHECKLIST

### Gateway Community and Technical College

#### Category 1: GCTC General Education Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
ENG 101	Writing I (WC)	3	ENG 101	
ENG 102	Writing II (WC)	3	ENG 102	
COM 181	Basic Public Speaking (OC)	3	CMST 101	
TBS XXX	Arts & Humanities (AH) Heritage	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) Humanities	3	TBD XXX	
JUS 101U	Social & Behavioral Sciences (SB) – JUS 101U recommended	3	JUS 101	
TBS XXX	Social & Behavioral Sciences (SB)	3	TBD XXX	
TBS XXX	Natural Science with Lab (SL)	4	TBD XXX	
INF 120U	Elementary Programming (NS)	3	INF 120	
MAT 171	Precalculus (QR)	5	MAT 103 + MAT 119	
STA 220	Statistics (QR)	3	STA 205	
<b>Subtotal General Education Courses</b>		<b>36</b>		

TBS XXX means to be selected by GCTC student.

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

For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

MAT 171 Precalculus is a prerequisite for NKU CSC 360: Object-Oriented Programming II.

#### Category 2: GCTC AS Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
Taken at NKU	Introductory Discrete Mathematics (QR)	3	MAT 185	
<b>Subtotal AS Requirement Courses</b>		<b>3</b>		

MAT 171 Precalculus is a prerequisite for NKU CSC 360: Object-Oriented Programming II.

#### Category 3: GCTC Electives

GCTC Course	Course or Category	Credits	NKU Course	Completed
FYE 105 or FYE 110	Achieving Academic Success or First Year Experience and Applications	3	UNV 100T	
CIT 105	Introduction to Computers	3	INF 101	
CIT 160	Introduction to Networking Concepts	4	INF 284	
CIT 111	Computer Hardware and Software	4	CIT 130	
CIT 180	Security Fundamentals	3	CIT 180 + CIT 182 = CYS 285	

GCTC Course	Course or Category	Credits	NKU Course	Completed
CIT 182	Perimeter Defense	3	CIT 180 + CIT 182 = CYS 285	
CIT 227	Introduction to UNIX/Linux Administration	3	CIT 371	
	<b>Subtotal Elective Courses</b>	<b>23</b>		
	<b>TOTAL Associate Degree Hours</b>	<b>62</b>		

Students may choose to take CIT 149 Java 1 and CIT 155 Web Page Development in place of CIT 180 and CIT 182.

## Northern Kentucky University

### Category 4: NKU Major Requirements for BS in Cybersecurity

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
CYS 285	Cybersecurity Fundamentals	3	CIT 180 + CIT 182	x
CYS 310	Cybersecurity Risk Management	3		
CYS 330	Introduction to Ethical Hacking	3	CIT 184	
CYS 385	Cybersecurity Analysis I	3		
CYS 444	Software Security	3		
CYS 485	Cybersecurity Analysis II	3		
CIT 130	Information Technology Fundamentals	3	CIT 111	x
CIT 171	Introduction to Linux	1	CIT 227	x
CIT 371	Linux System Administration	3	CIT 227	x
CSC 260	Object-Oriented Programming I	3	CIT 149	
CSC 325	Machine Learning	3		
CSC 350	Database Programming	3	CIT 171	
CSC 360	Object-Oriented Programming II	3	CIT 249	
CSC 362	Computer Systems	3		
CSC 364	Data Structures and Algorithms	3		
CSC 425	Artificial Intelligence	3		
CSC 460	Operating Systems	3		
CSC 482	Computer Security	3		
BIS 300	Management Information Systems	3		
INF 100	Orientation to College of Informatics	1		
INF 120	Elementary Programming	3	INF 120U	x
INF 201	Foundations of Informatics Professionals	1		
INF 284	Introduction to Computer Networks	3	CIT 160 or CIT 161	x
INF 286	Introduction to Web Development	3	CIT 155	
MAT 185	Introductory Discrete Mathematics	3	Taken at NKU	x
PHI 310	Information Ethics	3		
STA 205	Statistical Methods	3	STA 220	x

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
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 (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)		CIT 206 +	
CSC 415	Mobile App Development (3 cr)		CIT 207 =	
CSC 425	Artificial Intelligence (3 cr)	6	CIT 438	
CSC 481	Blockchain and Ethereum Development (3cr)			
CYS 305	Peer Teaching Assistant Training & Practicum (3 cr)		CIT 284 =	
CYS 392	Intermediate Research Experience in CYS (0-3 cr)		CYS 430	
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 439	Cloud Security (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 Major Credit Hours at NKU</b>	<b>59</b>		
	<b>Subtotal Credit Hours GCTC</b>	<b>62</b>		
	<b>Total Major Credit Hours</b>	<b>81</b>		
	<b>Total Baccalaureate Degree Credit Hours</b>	<b>121</b>		

Updated January 2026