



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to Bachelor of Science in Computer Science

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Computer Science 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 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 GPA cumulative GPA across all major coursework
6. Meet all requirements for the major
7. Completion of a focus, minor, or second major (if required by the 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 taken and passed an examination the AWS Cloud Certification 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 Computer 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 COMPUTER SCIENCE CHECKLIST

Gateway Community and Technical College

Category 1: GCTC General Education Core 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	
TBS XXX	Oral Communication (OC)	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) – Heritage	3	TBD XXX	
TBS XXX	Arts & Humanities (AH) – Humanities	3	TBD XXX	
TBS XXX	Social & Behavioral Sciences Course (SB)	3	TBD XXX	
TBS XXX	Social & Behavioral Sciences Course (SB)	3	TBD XXX	
INF 120U	Elementary Programming (NS)	3	INF 120	
TBS XXX	Natural Science Course with Lab (SL)	4	TBD XXX	
MAT 171	Precalculus (QR)	5	MAT 103 + MAT 119	
MAT 175	Calculus I (QR)	5	MAT 129	
Subtotal General Education Core Courses		38		

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.

Category 2: GCTC AS Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
MAT 185	Calculus II (QR)	5	MAT 229	
Subtotal AS Requirement Courses		5		

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 (Fulfills Digital Literacy Requirement)	3	INF 101	
CIT 120	Computational Thinking	3	INF 100T	
CIT 149*	Java I	3	CSC 260	
CIT 155	Web Page Development	3	INF 286	
CIT 160	Introduction to Networking Concepts	4	INF 284	
Subtotal Elective Courses		19		
Total Associate Degree Hours		62		

*Completion of INF 120U satisfies the CIT pre-requisite for CIT 149 and CIT 155 – please contact your advisor for an override

Northern Kentucky University

Category 4: NKU Major Requirements for BS in Computer Science

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
INF 100	Orientation to College of Informatics	1	Waived for students with AS degree	
INF 120	Elementary Programming	3	INF 120U	x
INF 284 or CIT 247	Introduction to Networks and Data... OR Networking Fundamentals Recommend: CIT 247 for CIT Minor Req.	3	CIT 160, CIT 161, CIT 167, CIT 209, CIT 214, CIT 219	x
INF 286	Introduction to Web Development	3	CIT 155	x
CSC 260	Object-Oriented Programming I	3	CIT 149	x
CSC 350	Database Programming	3	CIT 171	
CSC 360	Object-Oriented Programming II	3	CIT 249	x
CSC 362	Computer Systems	3		
CSC 364	Data Structures and Algorithms	3		
CSC 402	Advanced Programming Methods	3		
CSC 439	Software Testing and Maintenance	3		
CSC 440	Software Engineering	3		
CSC 460	Operating Systems	3		
CSC 485	Theory of Computation	3		
CSC 491	Comprehensive Examination	0		
CSC XXX or INF 311	Select one 300/400-level CSC course not included above. CIT 381 or INF 311 may count toward this elective. (see catalog)	3	CIT 238 = CSC 415	
TBS XXX TBS XXX	Select two 400-level CSC courses not included above. MAT 360 may count for either a 300-level or 400-level course.	6		
MAT 128	Calculus A	3	MAT 175 + MAT 185	x
MAT 227	Calculus B	3	MAT 175 + MAT 185	x
MAT 228	Calculus C	3	MAT 175 + MAT 185	x
STA 250	Probability and Statistics I	3		
MAT 385	Discrete mathematics	3		
	Subtotal Major Credit Hours at NKU	39		
	Subtotal Major Hours at GCTC	62		

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
	Total Credit Hours	101		

Category 5: Additional Requirements at NKU

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
	Subtotal Minor Credit Hours Taken at NKU through electives and/or a minor	19		
	Minimum Baccalaureate Degree Credit Hours	120		

Note: In order to complete a BS degree in Computer Science at NKU, a student must complete a minor. A mathematics, computer information technology, or information systems minor are popular choices for students pursuing Computer Science, as some of the requirements are fulfilled through courses taken in the major.

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