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## TWO DEGREES, ONE PATH

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### TRANSFER PATHWAY GUIDE 2024-2025

#### Associate of Arts to Bachelor of Science in Computer Science

##### **Overview**

Completion of the following curriculum will satisfy the requirements for the Associate of Arts (AA) degree at Cincinnati State (CState) and leads to the Bachelor of Science (BS) in Computer Science degree at Northern Kentucky University (NKU).

##### **Applying to the CState2NKU 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 Cincinnati State, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Cincinnati State.

##### **Degree Requirements for Cincinnati State**

1) Completion of minimum 62 credit hours, 36 of which from approved Ohio Transfer 36 courses, 2) minimum cumulative GPA 2.0, 3) completion of an FYE course as part of the first 12 credit hours taken at Cincinnati State, and 4) completion of Cooperative Education.

##### **Admission Requirements for 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 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.

##### **Advising Note**

Students in the CState2NKU program should work closely with their advisors when choosing

courses. This document serves as a guide but does not replace academic advising. When choosing Cincinnati State courses, student may also consult the Associate of Arts advising brochure or the catalog for A and B list courses in Arts and Humanities or Social and Behavioral Sciences. Some courses in this document may have prerequisites that are not reflected in the grid. Students should work with their advisor to ensure that prerequisites are met.

**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.

## CINCINNATI STATE AA TO NKU BS IN COMPUTER SCIENCE CHECKLIST

### Cincinnati State

#### Category 1: Ohio Transfer 36 Requirements

CState Course	Course or Category	Credits	NKU Course	Completed
ENG 101	English Composition 1	3	ENG 101	
ENG 102 or ENG 103 or ENG 104 or ENG 105	English Composition 2: Contemporary Issues English Composition 2: Writing about Literature English Composition 2: Technical Communication English Composition 2: Business Communication	3	ENG 102 or (GWR 200G)	
COMM 110	Public Speaking	3	CMST 101	
TBS XXX	Arts/Humanities List A Elective	3	TBD XXX	
TBS XXX	Arts/Humanities List B Elective	3	TBD XXX	
TBS XXX	Social/Behavioral Science List A Elective	3	TBD XXX	
TBS XXX	Social/Behavioral Science List B Elective	3	TBD XXX	
MAT 251	Calculus I	5	MAT 129 + MAT 100T	
TBS XXX	Natural/Physical Science Elective 1	3	TBD XXX	
TBS XXX	Natural/Physical Science Elective 2	3	TBD XXX	
MAT 252	Calculus 2	5	MAT 229	
	<b>Subtotal General Education Core</b>	<b>37</b>		

TBS XXX means to be selected by Cincinnati student.

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

#### Category 2: CState Degree Requirements for the AA and NKU Recommendations

CState Course	Course or Category	Credits	NKU Course	Completed
FYE 1XX	First Year Experience Elective	1	UNV 100T	
HUM 190	Career Exploration Seminar: AA/AS	2	CEP 101	
HUM XXX	Co-op/Internship Elective 1 and Elective 2	2	CEP 300	
CPDM 120	Fundamentals of Object-Oriented Programming with Python	3	CSC 260	
IT 101	Programming 1	3	INF 120	
IT 102	Programming 2	3	INF 200T	
IT 110	HTML with CSS and JavaScript	3	INF 286	
IT 111	Database Design and SQL 1	3	INF 282	
IT 115	Operating Systems Administration 1	3	CIT 271	
NETA 115	Networking Essentials	3	INF 284	
	<b>Total Associate Degree Credit Hours</b>	<b>63</b>		

## Northern Kentucky University

### Category 3: NKU Major Requirements for the BS in Computer Science

NKU Course	Course	Credits	CState Course	Taken at CState
INF 100	Orientation to College of Informatics	1	Waived for students with AA degree	x
INF 120	Elementary Programming	3	IT 101	x
INF 284 or CIT 247	Introduction to Networks and Data... OR Networking Fundamentals Recommend: CIT 247 for CIT Minor Req.	3	NETA 115	x
INF 286	Introduction to Web Development	3	IT 110	x
CSC 260	Object-Oriented Programming I	3	CPDM 120	x
CSC 350	Database Programming	3		
CSC 360	Object-Oriented Programming II	3		
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	Select one 300/400-level CSC course not included above. CIT 381 may count toward this elective.	3		
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 129	Calculus I - QR	4	MAT 251	x
MAT 229	Calculus II	5	MAT 252	x
STA 250	Probability and Statistics I	3		
MAT 385	Discrete mathematics	3		
	<b>Subtotal Major Credit Hours at NKU</b>	<b>42</b>		
	<b>Subtotal Major Credit Hours at CState</b>	<b>22</b>		
	<b>Total Major Credit Hours</b>	<b>64</b>		

**Category 4: Additional Requirements at NKU**

	<b>Category</b>	<b>Credits</b>		
	<b>Subtotal Minor/Focus Hours (6 credits needed for a minor in Mathematics)</b>	<b>6-24</b>		
	<b>Subtotal Elective Credit Hours</b>	<b>0-9</b>		
	<b>Minimum Total Baccalaureate Degree Credit Hours</b>	<b>120</b>		

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