

TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2023-2024

Associate of Science in Data Analytics To Bachelor of Science in Computer Information Technology

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Science (AS) in Data Analytics degree at Ivy Tech Community College (ITCC) and leads to the Bachelor of Science (BS) in Computer Information Technology degree at Northern Kentucky University (NKU).

Applying to the IvyTech2NKU 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 Ivy Tech, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Ivy Tech.

Degree Requirements for Ivy Tech

To earn a degree at Ivy Tech a student must successfully complete the required number of credits for the degree, attain a minimum GPA of 2.0 in the required technical and general education courses, and complete at least 15 degree credits in the curriculum as a regular student of Ivy Tech.

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.

Credits for Certifications: Students who have taken and passed an examination and hold a current certification at the time of registering for classes will receive credit for equivalent NKU courses based on the following course mappings.

Cisco

Students with an associate degree and Cisco Certified Entry Level (CCENT) certification will receive credit for CIT 247.

Students with an associate degree and Cisco Certified Network Associate Routing and Switching (CCNA R&S) certification will receive credit for CIT 447.

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	MINATION EQUIVALENT NKU COURSE	
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.

Ivy Tech Community College of Indiana

Students must complete the following courses for an AS in Data Analytics.

Category 1: ITCC Indiana College Core Competencies

ITCC Course	Course or Category	Credits	NKU Course	Completed
ENGL 111	English Composition	3	ENG 101	
COMM 101 or	Fundamentals of Public Speaking or	3	CMST 101	
COMM 102	Introduction to Interpersonal Communication	5	CMST 220	
			(MAT 102 or	
MATH 136	College Algebra	3	MAT 103) +	
			MAT 100T	
MATH 200	Statistics	3	STA 205	
TBS XXX	Scientific Ways of Knowing	3-5	TBD XXX	
TBS XXX	Scientific Ways of Knowing	3-5	TBD XXX	
TBS XXX	Social and Behavioral Ways of Knowing	3-4	TBD XXX	
TBS XXX	Humanistic and Artistic Ways of Knowing	3	TBD XXX	
твѕ ххх	Social and Behavioral Ways of Knowing, Scientific Ways of Knowing, or Quantitative Reasoning	3	TBD XXX	
TBS XXX	Scientific Ways of Knowing or Quantitative Reasoning	3	TBD XXX	
	Subtotal General Education Core	30-35		

TBS XXX means to be selected by Ivy Tech student

TBD XXX means to be determined by NKU based on course selected at Ivy Tech

A grade of A or B in MAT 136 equates to MAT 103 + MAT 100T. Grade of C or D in MAT 150 equates to MAT 102 + MAT 100T.

Category 2: ITCC Degree Require	ments for AS in Data Analy	ytics and NKU Recommendations

ITCC Course	Course or Category	Credits	NKU Course	Completed
IVYT 111	Student Success in University Transfer	1	UNV 100T	
CPIN 279	Information Technology Capstone	1	INF 200T	
DBMS 110	Introduction to Data Analytics	3	INF 200T	
DBMS 130	Data Management using Structured Query Language	3	INF 282	
DBMS 160	Data Visualization and Analysis	3		
DBMS 260	Advanced Data Analytics	3		
INFM 109	Informatics Fundamentals	3	CIT 130	
SDEV 120	Computer Logic	3	INF 100T	
SDEV 140 or	Introduction to Software Development or			
SDEV 220	Software Development Using Python	3	INF 120	
	(Transfer Cluster)			
SDEV 153	Web Site Development (Transfer Cluster)	3	INF 286	
	Transfer Cluster Electives	4		

ITCC Course	Course or Category	Credits	NKU Course	Completed
	Total Associate Degree Credit Hours	60-65		

Northern Kentucky University

Students must complete the following for a BS in Computer Information Technology: the core requirements, a minor or area of focus, and one of the three tracks.

Category 3: NKU Core Requirements for the BS in Computer Information Technology

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
INF 100	Orientation to College of Informatics	1	Waived for students with AS degree	
INF 120	Elementary Programming	3	SDEV 140 or SDEV 220	х
INF 282 or CSC 350	Introduction to Databases or Database Programming	3	DBMS 130	х
INF 284	Introduction to Computer Networks	3	NETI 104	
INF 286	Introduction to Web Development	3	SDEV 153	х
CIT 130	Information Technology Fundamentals	3	INFM 109	х
CIT 171	Introduction to Linux	1		
CIT 271	Windows Administration	3		
CIT 371	Unix Systems	3		
CIT 383	Scripting I	3		
CYS 285	Cybersecurity Fundamentals	3	CSIA 215 + CSIA 235 = CYS 285 + CIT 200T	
STA 205 or STA 250	Statistical Methods or Probability and Statistics	3	MATH 200	х
PHI 310	Information Ethics	3		
ENG 347	Technical Writing	3	ENGL 211	
	Select one of the following tracks: Network and Administration Track Cloud and System Administration Track Cybersecurity Track (Courses are listed in Categories 5-7 tables below)	18		
	Subtotal Major Credit Hours at NKU	40		
	Subtotal Major Credit Hours at ITCC	15		
	Total Major Credit Hours	55		

Category 4: Additional Requirements at NKU

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
	Subtotal Minor Credit Hours Taken at NKU			
	Any NKU minor may be selected. Information	15-24		
	Systems and Computer Science are common	15-24		
	choices and require 15 additional credits.			
	Subtotal Elective (300/400 level) Hours	0-5		
	Total Baccalaureate Degree Credit Hours	120-129		

Credits hours for the baccalaureate degree can vary based on the courses taken at ITCC and the minor selected at NKU.

Students must choose one of the following tracks: Network and System Administration Track, Cloud and System Administration Track, or Cybersecurity Track.

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
CIT 247	Networking Fundamentals	3	NETI 109 + NETI 119 + NETI 209	
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 Track Credit Hours	18		

Category 5: NKU Requirements for the Network and System Administration Track

Category 6: NKU Requirements for the Cloud and System Administration Track

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

Category 7: NKU Requirements for the Cybersecurity Track

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
CYS 330	Introduction to Ethical Hacking	3		
CYS 385	Cybersecurity Analysis I	3		
CYS 484	Network Security	3		
CYS 485	Cybersecurity Analysis II	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		
	Additional Track Credits	18		

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