



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2024-2025

Associate of Applied Science in Computer and Information Technologies –
Informatics Track to Bachelor of Science in 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 (Informatics Track) degree at a Kentucky Community and Technical College System (KCTCS) institution and leads to the Bachelor of Science (BS) in Information Technology degree at Northern Kentucky University (NKU).

Applying to the KCTCS2NKU 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 their KCTCS institution, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at their KCTCS institution.

Degree Requirements for KCTCS

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 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.

General Transfer Information

Students must complete the online application to NKU. There is no application fee for students who are transferring from a KCTCS institution.

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.

| 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.

**KCTCS AAS IN COMPUTER & INFORMATION TECHNOLOGIES – INFORMATICS TRACK
(BUSINESS COURSE SEQUENCE) TO NKU BS IN INFORMATION TECHNOLOGY CHECKLIST**

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements

| KCTCS Course | Course or Category | Credits | NKU Course | Completed |
|--------------------------|--|----------------|---|------------------|
| ENG 101 | Writing I (WC) | 3 | ENG 101 | |
| MAT 150 or MAT 161 | College Algebra (QR) or Statistics and Algebra (QR) | 3-5 | (MAT 102 or MAT 103) + MAT 100T or MAT 101 + MAT 102 | |
| TBS XXX | Social & Behavioral Sciences (SB) | 3 | TBD XXX | |
| TBS XXX | Arts & Humanities (AH) Heritage or Humanities | 3 | TBD XXX | |
| TBS XXX | Natural Science (NS or SL) | 3 | TBD XXX | |
| | Subtotal General Education Courses | 15-17 | | |

TBS XXX means to be selected by KCTCS student.

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

A grade of A or B in MAT 150 equates to MAT 103 + MAT 100T. 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 will be required to take an additional science with a lab at NKU.

Category 2: KCTCS AAS Requirements for Computer and Information Technologies – Informatics Track

| KCTCS Course | Course or Category | Credits | NKU Course | Completed |
|-----------------------------------|---|----------------|------------------------------------|------------------|
| CIT 105 | Introduction to Computers | 3 | BIS 101 | |
| CIT 111 | Computer Hardware and Software | 4 | CIT 130 | |
| CIT 120 + CIT 149 + CIT 249 | Computational Thinking and Java I (Level I Programming Language) and Java II | 3 3 3 | INF 120 + CSC 260 + CSC 200T | |
| CIT 150 or CIT 155 | Internet Technologies (CIT Technical) or Web Page Development (CIT Technical) | 3 | INF 286 | |
| CIT 160 or CIT 161 | Intro to Networking Concepts or Introduction to Networks (Level I Networking) | 4 | INF 284 | |
| CIT 170 | Database Design Fundamentals | 3 | INF 282 | |
| CIT 180 | Security Fundamentals | 3 | CIT 100T | |

| KCTCS Course | Course or Category | Credits | NKU Course | Completed |
|---|--|--------------|-------------------------------|-----------|
| CIT 290 or CIT 291 or CIT 293 or CIT 297 | Internship or CIT Capstone or CIT Employability Studies or CIT Professional Preparation | 1-3 | BIS 310 BIS 310 INF 201 | |
| ECO 201 or ECO 202 | Principles of Microeconomics (SB) or Principles of Macroeconomics (SB) | 3 | ECO 101 or ECO 100 | |
| ENG 102 | Writing II (WC) | 3 | ENG 102 | |
| IFM 111 | Client-Side Informatics Software | 3 | INF 200T | |
| IFM 128 | Principles of Informatics | 3 | INF 128 | |
| TBS XXX | Oral Communications (OC) | 3 | TBD XXX | |
| | Subtotal AAS Requirement Courses | 45 | | |
| | Total Associate Degree Hours | 60-62 | | |

Northern Kentucky University

Category 3: NKU Additional General Education Courses

| NKU Course | Course or Category | Credits | KCTCS Course | Taken at KCTCS |
|------------|--|-----------|--------------|----------------|
| TBS XXX | Science with Lab | 4 | | |
| TBS XXX | Self & Society | 3 | | |
| TBS XXX | Culture & Creativity | 3 | | |
| TBS XXX | Global Viewpoints | 3 | | |
| | Subtotal General Education Credit Hours | 13 | | |

Category 4: NKU Major Requirements for BS in Information Technology

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|------------|---------------------------------------|---------|---|----------------|
| INF 100 | Orientation to College of Informatics | 1 | Waived for students with AAS degree | |
| INF 120 | Elementary Programming | 3 | CIT 120 + CIT 149 = INF 120 + CSC 260 | 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 | x |
| CIT 130 | Information Technology Fundamentals | 3 | CIT 111 | x |
| CIT 171 | Intro to Linux | 1 | CIT 217 | |
| CIT 271 | Windows Administration | 3 | CIT 215 or CIT 216 | |

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|-----------------------|--|-----------|---|----------------|
| CIT 371 | Linux System Administration | 3 | | |
| CIT 383 | Scripting I | 3 | | |
| CYS 285 | Cybersecurity Fundamentals | 3 | CIT 180 + CIT 182 = CYS 285 + CIT 100T | |
| STA 205 or STA 250 | Statistical Methods or Probability and Statistics | 3 | STA 220 or (MAT 151 or STA 151 or MAT 161) + STA 251 | |
| 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 General Track (Required courses are listed in Categories 6-9 tables below.) | 18 | | |
| | Subtotal Major Credit Hours at NKU | 40 | | |
| | Subtotal Major Credit Hours KCTCS | 16 | | |
| | Total Major Credit Hours | 56 | | |

Category 5: Additional Requirements at NKU

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|------------|--|----------------|--------------|----------------|
| | Subtotal Minor/Focus Credit Hours Note: 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. | 9-24 | | |
| | Subtotal Elective Credit Hours | 0 | | |
| | Total Baccalaureate Degree Credit Hours | 122-139 | | |

Note: 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 Information Technology major. Track requirements are listed in the Category 6-9 tables below.

Category 6: NKU Major Requirements for the Network and System Administration Track

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|--|---|-----------|--------------|----------------|
| CIT 247 | Networking Fundamentals | 3 | CIT 167 | |
| CIT 438 | Cloud Computing | 3 | | |
| CIT 447 | Network Design/Troubleshooting | 3 | | |
| CIT 470 | Advanced Network and System Administration | 3 | | |
| CYS 484 | Network Security | 3 | | |
| TBS XXX | Select one 300/400-level CIT course not included above. CSC 481 can count toward this elective. | 3 | | |
| Additional Credit Hours for Track | | 18 | | |

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

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|--|---|-----------|--------------|----------------|
| CIT 436 | Web Server Administration | 3 | | |
| CIT 438 | Cloud Computing | 3 | | |
| CIT 470 | Advanced Network and System Administration | 3 | | |
| CIT 472 | Database Administration | 3 | | |
| TBS XXX | Select six hours of CIT 300/400 level courses not listed above; CYS 439 and CSC 481 can count toward these electives. | 6 | | |
| Additional Credit Hours for Track | | 18 | | |

Category 8: NKU Major Requirements for the Cybersecurity Track

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|--|---|-----------|--------------|----------------|
| CYS 330 | Introduction to Ethical Hacking | 3 | CIT 167 | |
| CYS 385 | Cybersecurity Analysis I | 3 | | |
| CYS 484 | Network Security | 3 | | |
| CYS 485 | Advanced Cybersecurity | 3 | | |
| TBS XXX | Select two 300/400-level CIT or CYS courses not included above; BIS 382, CSC 481; CSC 482, and CSC 483 may count toward these electives | 6 | | |
| Additional Credit Hours for Track | | 18 | | |

Category 9: NKU Major Requirements for the General Track

| NKU Course | Course | Credits | KCTCS Course | Taken at KCTCS |
|-----------------------|--|----------------|---------------------|-----------------------|
| CIT 436 or CIT 438 | Web Server Administration or Cloud Computing | 3 | | |
| CIT 470 or CIT 472 | Advanced Network and System Administration or Database Administration | 3 | | |
| CYS 330 or CYS 385 | Introduction to Ethical Hacking or Cybersecurity Analysis I | 3 | | |
| TBS XXX | Select 9 credit hours of 300/400 CIT or CYS coursework not taken above. CIT 247 and CSC 481 may count toward these electives. No more than 6 hours may be taken from CIT/CYS 392/399/492/499. | 9 | | |
| | Additional Credit Hours for Track | 18 | | |

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