

# TRANSFER PATHWAY GUIDE 2023-2024

Associate of Applied Science in Computer and Information Technologies – Network Administration Track to Bachelor of Science in Computer 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 (Network Administration Track) degree at the Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Computer Information Technology 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) 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 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. In some cases, 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 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 \$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                        | (AMINATION EQUIVALENT NKU COURSE                                       |   |
|------------------------------------|--|---|
| CCNA Exam (200-301)*               | CIT 247 Networking Fundamentals CIT 447 Network Design/Troubleshooting | 6 |
| CCNP Security Core Exam (350-701)* | CIT 484 Network Security   | 3 |
| Certified Entry Networking         | CIT 247 Networking Fundamentals  | 3 |

<sup>\*</sup>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<br>HOURS |
|--|---|-------------------------|
| Security+ (versions SY0-501 and later) | CIT 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 CIT 285.

# GCTC AAS IN COMPUTER & INFORMATION TECHNOLOGIES – NETWORK ADMINISTRATION TRACK TO NKU BS IN COMPUTER INFORMATION TECHNOLOGY – ALL TRACKS CHECKLIST

# **Gateway Community and Technical College**

**Category 1: GCTC General Education Requirements** 

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

TBS XXX means to be selected by GCTC student.

Students can take MAT 150 + STA 220 to satisfy the QR general education requirement at Gateway and the STA 205 requirement for the major at NKU. A grade of A or B in MAT 150 equates to MAT 103 + MAT 100T at NKU. A 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 may be required to take an additional science with a lab at NKU.

Category 2: GCTC AAS Requirements for Computer and Information Technologies (Network Administration Track)

| GCTC      | Course or Category                                | Credits | NKU       | Completed |
|-----------|---|---------|-----------|-----------|
| Course    | <b>0</b> ,  |         | Course    | •         |
| CIT 105   | Introduction to Computers                         | 3       | BIS 101   |           |
| CIT 111   | Computer Hardware and Software                    | 4       | CIT 130   |           |
| CIT 227   | Introduction to UNIX/Linux Administration (CIT    | 3       | CIT 171 + |           |
| CIT 227   | Technical)  | 3       | CIT 100T  |           |
| CIT 160   | Intro to Networking Concepts (Level I Networking) | 4       | INF 284   |           |
| CIT 120   | Computational Thinking                            | 3       | INF 100T  |           |
| CIT 149   | Java I  | 3       | CSC 260   |           |
| CIT 170   | Database Design Fundamentals                      | 3       | INF 282   |           |
| CIT 180 + | Security Fundamentals +                           | 3       | CIT 285 + |           |
| CIT 182   | Perimeter Defense (CIT Technical)                 | 3       | CIT 100T  |           |
| CIT 184   | Attacks and Exploits (CIT Technical)              | 3       | CIT 100T  |           |
| CIT 213 + | Microsoft Client Configuration +                  | 12      | CIT 200T  |           |
| CIT 261 + | MS Active Directory Services+                     | 12      | CIT 200T  |           |

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

| GCTC      | Course or Category               | Credits | NKU     | Completed |
|-----------|----------------------------------|---------|---------|-----------|
| Course    |                                  | Credits | Course  | Completed |
| CIT 262 + | MS Network Infrastructure +      |         | INF 284 |           |
| CIT 264   | Microsoft Server Management      |         | CIT 271 |           |
| CIT 293   | CIT Employability Studies        | 1       | INF 201 |           |
|           | Subtotal AAS Requirement Courses | 45      |         |           |
|           | Total Associate Degree Hours     | 60      |         |           |

# **Category 3: Additional Gateway Requirements for Core General Education Certification**

In addition to completing the requirements of the AAS degree, students can complete additional courses from these categories in order to satisfy the general education requirements at NKU. If a student completes the AAS degree and transfers on to NKU, they will need to take six general education courses in addition to the required major courses.

| GCTC<br>Course | Course or Category   | Credits | NKU<br>Course | Taken at<br>GCTC |
|----------------|--|---------|---------------|------------------|
| ENG 102        | Writing II (WC)  | 3       | ENG 102       |                  |
| TBS XXX        | Oral Communication (OC)  | 3       | TBD XXX       |                  |
| TBS XXX        | Arts & Humanities (AH) Heritage or Humanities (depending on Gen Ed selected above)                     | 3       | TBD XXX       |                  |
| STA 220        | Statistics (QR)  | 3       | STA 205       |                  |
| TBS XXX        | Social & Behavioral Science (SB) (different from the discipline taken in Category 1)                   | 3       | ТВD XXX       |                  |
| TBS XXX        | Choose either an additional Natural Science course or an additional Social & Behavioral Science course | 3       | TBD XXX       |                  |
| TBS XXX        | Natural Science Laboratory (SL)  | 1       | TBD XXX       |                  |
|                | Subtotal General Education Credit Hours  | 19      |               |                  |

# **Northern Kentucky University**

# **Category 4: NKU Additional General Education Courses**

| NKU<br>Course | Course or Category                      | Credits | GCTC<br>Course | Taken at<br>GCTC |
|---------------|---|---------|----------------|------------------|
| ENG 102       | Writing II                              | 3       | ENG 102        |                  |
| TBS XXX       | Oral Communication                      | 3       |                |                  |
| TBS XXX       | Science with Lab                        | 4       |                |                  |
| TBS XXX       | Self & Society                          | 6       |                |                  |
| TBS XXX       | Culture & Creativity                    | 3       |                |                  |
| TBS XXX       | Global Viewpoints                       | 3       |                |                  |
|               | Subtotal General Education Credit Hours | 22      |                |                  |

**Category 5: NKU Major Requirements for BS in Computer Information Technology** 

| NKU<br>Course         | Course   | Credits | GCTC<br>Course   | Taken<br>at<br>GCTC |
|-----------------------|--|---------|--|---------------------|
| INF 100               | Orientation to College of Informatics  | 1       | Waived for students with AAS degree  |                     |
| INF 120               | Elementary Programming   | 3       | CIT 141 or CIT 142 or<br>CIT 143 or CIT 144 or<br>CIT 145 or CIT 146 or<br>CIT 147 or CIT 148 or<br>CS 115 | х                   |
| INF 282               | Introduction to Databases  | 3       | CIT 170  | Х                   |
| INF 284               | Introduction to Computer Networks  | 3       | CIT 160 or CIT 161   | Х                   |
| INF 286               | Introduction to Web Development  | 3       | CIT 155  | Х                   |
| CIT 130               | Information Technology Fundamentals  | 3       | CIT 111  | Х                   |
| CIT 171               | Introduction to Linux  | 1       | CIT 217  | Х                   |
| CIT 271               | Windows Administration   | 3       | CIT 215 or CIT 216 or<br>CIT 264   | x                   |
| CIT 285               | Cybersecurity Fundamentals   | 3       | CIT 180 + CIT 182 =<br>CIT 285 + CIT 100T  | х                   |
| CIT 371               | Unix Systems   | 3       |  |                     |
| CIT 383               | Scripting I  | 3       |  |                     |
| STA 205 or<br>STA 250 | Statistical Methods or<br>Probability and Statistics   | 3       | STA 220  |                     |
| 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 (Required courses are listed in Categories 7-9 tables below.) | 18      |  |                     |
|                       | Subtotal Major Credit Hours at NKU   | 33      |  |                     |
|                       | Subtotal Major Credit Hours GCTC   | 22      |  |                     |
|                       | Total Major Credit Hours   | 56      |  |                     |

# **Category 6: Additional Requirements at NKU**

| NKU<br>Course | Course  | Credits | GCTC<br>Course | Taken at<br>GCTC |
|---------------|---|---------|----------------|------------------|
|               | Subtotal Minor Credit Hours                     | 12-24   |                |                  |
|               | Minimum Total Baccalaureate Degree Credit Hours | 129-141 |                |                  |

Note: Any NKU focus or minor may be selected. Information Systems and Computer Science are common choices and require only 9-15 additional credit hours beyond the major.

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.

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

| NKU Course | Course                                      | Credits | GCTC<br>Course | Taken at GCTC |
|------------|---|---------|----------------|---------------|
| 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       |                |               |
| CIT 484    | Network Security                            | 3       |                |               |
| CIT XXX    | 300/400-level CIT Course (not listed above) | 3       |                |               |
|            | Additional Credit Hours for Track           | 18      |                |               |

Category 8: NKU Major Requirements for the Cloud and System Administration Track

| NKU Course            | Course  | Credits | GCTC<br>Course | Taken at GCTC |
|-----------------------|---|---------|----------------|---------------|
| CIT 436               | Web Server Administration                     | 3       |                |               |
| CIT 438               | Cloud Computing                               | 3       |                |               |
| CIT 470               | Advanced Network and System Administration    | 3       |                |               |
| CIT 472               | Database Administration                       | 3       |                |               |
| CIT XXX or<br>CYS 439 | Add two electives from CIT 300/400 or CYS 439 | 6       |                |               |
|                       | Additional Credit Hours for Track             | 18      |                |               |

Category 9: NKU Major Requirements for the Cybersecurity Track

| NKU Course  | Course  | Credits | GCTC<br>Course | Taken at GCTC |
|-------------|---|---------|----------------|---------------|
| 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       |                |               |
| 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 Credit Hours for Track   | 18      |                |               |

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