

# TRANSFER PATHWAY GUIDE

# 2019-2020

Associate of Applied Science in Computer and Information Technologies – Programming Track to Bachelor of Science in Computer Information Technology – Web and Database Administration Track

## Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Applied Science (AAS) in Computer and Information Technologies – Programming Track degree at a Kentucky Community and Technical College System institution and leads to the Bachelor of Science in Computer Information Technology – Web and Database Administration Track degree at Northern Kentucky University.

## 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) completion of minimum 60 credit hours, 2) minimum cumulative GPA 2.0, 3) minimum of 25 percent of credit hours required for the degree earned at the institution awarding the degree, 4) 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.

## 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 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.

| **Examination** | **Equivalent NKU Courses** | **Semester Credits** |
| --- | --- | --- |
| CCNA Routing and Switching | CIT 247 Networking FundamentalsCIT 447 Network Design/Troubleshooting | 6 |
| CCNA Security | CIT 247 Networking FundamentalsCIT 484 Network Security  | 6 |
| Security+(versions SY0-501 and later) | CIT 285 Cybersecurity Fundamentals | 3 |
| OCA – Oracle Certified Associate | CIT 472 Database Administration | 3 |

Note: Students with Security+ exams SY0-401 and below will be required to take CIT 285.

### KCTCS AAS IN COMPUTER & INFORMATION TECHNOLOGIES – PROGRAMMING TRACK TO ­­­­­­­­­­­­­­­NKU BS IN COMPUTER INFORMATION TECHNOLOGY – WEB AND DATABASE ADMINISTRATION TRACK CHECKLIST

### Kentucky Community and Technical College System

#### Category 1: KCTCS General Education Requirements

| **KCTCS Course** | **Course or Category** | **Credits** | **NKUCourse** | **Completed** |
| --- | --- | --- | --- | --- |
| ENG 101 | Writing I (WC) | 3 | ENG 101 |  |
| MAT 150 | College Algebra (QR) | 3 | (MAT 102 or 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 with Lab (SL) – Choose from the list below:BIO 135 -Basic Anatomy & Physiology with LaboratoryBIO 137 -Human Anatomy & Physiology IBIO 139 - Human Anatomy & Physiology IIBIO 141 -Botany with LaboratoryBIO 143- Zoology with LaboratoryBIO 225 -Medical MicrobiologyCHE 220 -Analytical ChemistryEST 150 -Introductory EcologyGEO 280 -Environmental ScienceGLY 220 -Principles of Physical GeologyPHY 171 -Applied Physics | 4 | TBD XXX |  |
|  | **Subtotal General Education Courses** | **16** |  |  |

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

| **KCTCS Course** | **Course or Category** | **Credits** | **NKUCourse** | **Completed** |
| --- | --- | --- | --- | --- |
| CIT 105 | Introduction to Computers | 3 | BIS 101 |  |
| CIT 111 | Computer Hardware and Software | 4 | CIT 100T |  |
| CIT 120 | Computational Thinking | 3 | INF 100T |  |
| CIT 144 | Python I (Level I Programming Language) | 3 | INF 120 |  |
| CIT 149 +CIT 249 | Java I (Level I Programming Language)Java II (Level II Programming Language) | 33 | CSC 260 + CSC 360 |  |
| CIT 141 orCIT 142 orCIT 143 orCIT 145 orCIT 146 orCIT 147 orCIT 148 orCS 115 | Level I Programming Language Course:PHP I orC++ I orC# I orPerl I orSwift I orProgramming I: Language orVisual Basic I orIntroduction to Computer Programming | 3 | CIT 100T(already haveINF 120) |  |
| CIT 237 orCIT 238 orCIT 241 orCIT 242 orCIT 243 orCIT 244 orCIT 247 orCIT 248 orCS 215 | Level II Programming Language Course:iOS Programming orAndroid Programming orPHP II orC++ II orC# I orPython II orProgramming II: Language orVisual Basic II orIntro Program Design, Instruction, and Problem Solving | 3 | CSC 200TCSC 260CIT 200TCSC 200TINF 120INF 200TINF 120INF 110CIT 200T |  |
| CIT 150 orCIT 155 orIMD 230 | Internet Technologies (CIT Technical) orWeb Page Development (CIT Technical) orAdvanced Web Design (CIT Technical) | 3 | INF 286 |  |
| CIT 160 orCIT 161 | Intro to Networking Concepts (Level I Networking) or Introduction to Networks (Level I Networking) | 4 | INF 284 |  |
| CIT 170 | Database Design Fundamentals | 3 | INF 282 |  |
| CIT 180 +CIT 182 | Security Fundamentals andPerimeter Defense (CIT Technical) | 33 | CIT 285 + CIT 200T |  |
| CIT 253 | Data Driven Web Pages: Topic | 3 | CSC 301 |  |
| CIT 293 | CIT Employability Studies | 1 | CIT 200T |  |
|  | **Total Associate Degree Hours** | **61** |  |  |

### Northern Kentucky University

#### Category 3: Additional General Education Courses

| **NKU****Course** | **Course or Category** | **Credits** | **KCTCS****Course** | **Taken at KCTCS** |
| --- | --- | --- | --- | --- |
| ENG 102 | Advanced College Writing | 3 | ENG 102 |  |
| CMST 101 | Public Speaking | 3 | COM 181 |  |
| TBS XXX | Self & Society | 6 |  |  |
| TBS XXX | Culture & Creativity | 3 |  |  |
| TBS XXX | Global Viewpoints | 3 |  |  |
|  | **Subtotal General Education Credit Hours** | **18** |  |  |

#### Category 4: Major Requirements for BS in Computer Information Technology – Web and Database Administration Track with a minor in Computer Science.

| **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 144 | 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 or IMD 230 | x |
| CIT 130 | Information Technology Fundamentals | 3 | CIT 111 + CIT 217 + CIT 160 or CIT 161 = CIT 130 + CIT 100T + INF 284 |  |
| CIT 271 | Windows Administration | 3 | CIT 213 + CIT 215 =CIT 271 + CIT 200T |  |
| CIT 285 | Cybersecurity Fundamentals | 3 | CIT 180 + CIT 182 = CIT 285 + CIT 100T | x |
| CIT 371 | Unix Systems | 3 |  |  |
| CIT 383 | Scripting I | 3 |  |  |
| STA 205 or STA 250 | Statistical Methods orProbability 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 |  |  |
| CSC 260 | Object-Oriented Programming I | 3 | CIT 149 +CIT 249 = CSC 260 +CSC 360 | x |
| CSC 360 | Object-Oriented Programming II | 3 | CIT 149 +CIT 249 = CSC 260 +CSC 360 | x |
| CSC 301 | Web Programming | 3 | CIT 253 | x |
| CIT 436 | Web Server Administration | 3 |  |  |
| CIT 472 | Database Administration | 3 |  |  |
| TBS XXX | CSC 456 Advanced Web Application Development or300/400- level CIT course | 3 |  |  |
| CSC 364 | Data Structures and Algorithms | 3 |  |  |
| CSC XXX | 300/400-level CSC Course (not above) | 3 |  |  |
| TBS XXX | Additional hours at the 300/400-level to meet the 45 credit hour graduation requirement | 12 |  |  |
|  | **Subtotal Major/Minor Credit Hours at NKU**  | **49** |  |  |
|  | **Subtotal Major/Minor Credit Hours KCTCS** | **24** |  |  |
|  | **Total Major/Minor Credit Hours** | **73** |  |  |
|  | **Total Baccalaureate Degree Credit Hours** | **128** |  |  |

Students may choose a different minor which may require additional hours at the 300/400-level to complete the graduation requirement.

Updated May 2019