

# TRANSFER PATHWAY GUIDE

# 2019-2020

Associate in Science to

Bachelor of Science in Biological Sciences (General Biology Track)

## Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science degree at Gateway Community and Technical College and leads to the Bachelor of Science in Biological Sciences degree at Northern Kentucky University.

## 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, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Gateway.

## Degree Requirements for GCTC

1) Completion of minimum 60 credit hours, 2) minimum cumulative GPA 2.0, 3) minimum of 15 credit hours earned at the institution awarding the degree, 4) cultural studies course, 5) demonstration of digital literacy, 6) college success requirement.

## 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.

Students pursuing a degree in the biological sciences may do so by choosing one of seven different tracks. These tracks allow the individual student to place an emphasis on areas of biology that he or she finds of interest. However, the faculty of the department feel very strongly that each student completing a degree in biology must have a solid foundation in the discipline. Therefore, there is a core of courses required of all majors. A grade of C- or better must be earned in all biology courses that count toward completion of major requirements. The department has also identified a common core of support courses that must be completed with a C- or better by all biological science majors. Details concerning the biology core, support core, and each of the tracks follow.

Students wishing to be certified to teach biology at the secondary level should complete the B.A. General Biology Track in conjunction with a B.A. Secondary Education. Students should review the section of the catalog describing the B.A. Secondary Education track within the Department of Teacher Education.

## 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.

### GCTC AS TO NKU BS IN BIOLOGICAL SCIENCES CHECKLIST

### Gateway Community and Technical College

#### Category 1: GCTC General Education Core Requirements (36 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| ENG 101 | Writing I (WC) | 3 | ENG 101 |  |
| Taken at NKU | Advanced Writing in Biology (WC) | 3 | BIO 291W |  |
| TBS XXX | Oral Communication (OC) | 3 | TBD XXX |  |
| TBS XXX | Arts & Humanities Course (AH) – Heritage | 3 | TBD XXX |  |
| TBS XXX | Arts & Humanities Course (AH) – Humanities | 3 | TBD XXX |  |
| TBS XXX | Social & Behavioral Sciences Course (SB) | 3 | TBD XXX |  |
| TBS XXX | Social & Behavioral Sciences Course (SB) | 3 | TBD XXX |  |
| BIO 114/115 | Biology I / Lab (NS) | 4 | BIO 150/150L |  |
| BIO 116/117 | Biology II / Lab (SL) | 4 | BIO 151/151L |  |
| MAT 170 or MAT 175 | Brief Calculus with Applications (QR) or Calculus I (QR) | 3-5 | MAT 112 or  MAT 129 |  |
| STA 251 | Applied Statistics (QR) | 3 | STA 100G |  |
|  | **Subtotal General Education Core Courses** | **35-37** |  |  |

TBS XXX means to be selected by GCTC student.

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

One of these courses must be selected from the KCTCS identified Cultural Studies course list, indicate by placing (CS) next to the course name in Category 1 or 2 table.

STA 251 has a pre-requisite of MAT 151 or MAT 161. (MAT 151 or MAT 161) + STA 251 = STA 205.

#### Category 2: GCTCS AS Requirements (8 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| CHE 170/175 | General College Chemistry I / Lab | 5 | CHE 120/120L |  |
| CHE 180/185 | General College Chemistry II / Lab | 5 | CHE 121/121L |  |
|  | **Subtotal AS Requirement Courses** | **10** |  |  |

#### Category 3: GCTCS Electives (21 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| FYE 105 | Achieving Academic Success | 3 | UNV 100T |  |
| CIT 105 or  OST 105 | Introduction to Computers or  Intro to Information Systems | 3 | BIS 101 |  |
| EST 150 | Introductory Ecology | 4 | BIO 304/304L |  |
| PHY 201/202 | College Physics I / Lab | 5 | PHY 211 |  |
|  | **Subtotal Elective Courses** | **15** |  |  |
|  | **TOTAL Associate Degree Hours** | **60-62** |  |  |

### Northern Kentucky University

#### Category 4: Major Requirements for the BS in Biological Sciences

| **NKU Course** | **Course** | **Credits** | **GCTC Course** | **Taken at GCTC** |
| --- | --- | --- | --- | --- |
| BIO 150/150L | Introduction to Biology I and Laboratory | 4 | BIO 114/115 | x |
| BIO 151/151L | Introduction to Biology II and Laboratory | 4 | BIO 116/117 | x |
| BIO 155 | Orientation to Biology | 1 |  |  |
| BIO 291W | Advanced Writing in Biology | 3 | At NKU | x |
| BIO 304/304L | General Ecology and Laboratory | 3 | EST 150 | x |
| BIO 349/349L | Genetics and Laboratory | 4 |  |  |
| BIO 458 | Evolution of Organisms | 3 |  |  |
| BIO 491 | Comprehensive Examination | 0 |  |  |
| CHE 120/120L | General Chemistry I and Laboratory | 4 | CHE 170/175 | x |
| CHE 121/121L | General Chemistry II and Laboratory | 4 | CHE 180/185 | x |
| PHY 211/213 or  PHY 220/222 | General Physics with Laboratory I and II or  University Physics with Laboratory I and II | 8-10 | PHY 201/202  and  PHY 203/204 | PHY I done;  Need PHY 213 |
| STA 205 | Statistical Methods | 3 | (MAT 151 or MAT 161) +  STA 251 | x |
| TBS XXX | Foreign language at the 102 or higher level. Can be met by a two-course sequence, CLEP or AP exam equivalency. | 0-6 |  |  |
| TBS XXX | One course from the cellular/molecular/genetics group | 3-4 |  |  |
| TBS XXX | One course from the ecology/evolution/organismal group | 3-4 |  |  |
| TBS XXX | Select two BIO (300+ level) elective courses | 7-8 |  |  |
| CHE 310/310L | Organic Chemistry I / Lab | 4 |  |  |
| CHE 311/311L | Organic Chemistry II / Lab | 4 |  |  |
| MAT 112 or  MAT 128 or  MAT 129 | Applied Calculus or  Calculus A or  Calculus I | 3-4 | MAT 170 or MAT 175 | x |
|  | **Subtotal Major Credit Hours at NKU** | **34-43** |  |  |
|  | **Subtotal Major Credit Hours at GCTC** | **33** |  |  |
|  | **Total Major Credit Hours** | **67-76** |  |  |

**Category 5: Additional Requirements at NKU**

| **NKU Course** | **Course** | **Credits** | **KCTCS Course** | **Taken at KCTCS** |
| --- | --- | --- | --- | --- |
|  | **Subtotal Elective (300/400 level) Hours** | **15-26** |  |  |
|  | **Total Baccalaureate Degree Credit Hours** | **120** |  |  |

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