

# TRANSFER PATHWAY GUIDE

# 2019-2020

Associate in Science to

Bachelor of Science in Chemistry (Biochemistry 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 Chemistry (Biochemistry Track) 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. In addition, students must have a minimum GPA of 2.0 across all major coursework and earn at least a C- in each course counted toward the major.

Students may receive American Chemical Society (ACS) certification in the Bachelor of Science in Chemistry (Biochemistry Track) by selecting appropriate course options indicated in the text below the Category 4 table.

## 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 CHEMISTRY (BIOCHEMISTRY TRACK) CHECKLIST

### Gateway Community and Technical College

#### Category 1: GCTC General Education Core Requirements (41 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| ENG 101 | Writing I (WC) | 3 | ENG 101 |  |
| ENG 102 | Writing II (WC) | 3 | ENG 102 |  |
| TBS XXX | Oral Communication (OC) | 3 | TBD XXX |  |
| TBS XXX | Arts & Humanities (AH) – Heritage | 3 | TBD XXX |  |
| TBS XXX | Arts & Humanities (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 |  |
| CHE 170/175 | General College Chemistry I/Lab I (NS) | 5 | CHE 120/120L |  |
| CHE 180/185 | General College Chemistry II/Lab II (SL) | 5 | CHE 121/121L |  |
| MAT 175 | Calculus I (QR) | 5 | MAT 129 |  |
| MAT 185 | Calculus II (QR) | 5 | MAT 227 |  |
|  | **Subtotal General Education Core Courses** | **41** |  |  |

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.

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

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| BIO 114/115 | Biology I | 4 | BIO 150/150L |  |
| BIO 116/117 | Biology II | 4 | BIO 151/151L |  |
|  | **Subtotal AS Requirement Courses** | **8** |  |  |

#### Category 3: GCTCS Electives (11 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| CIT 105 or  OST 105 | Introduction to Computing or Introduction to Information Systems | 3 | BIS 101 |  |
| FYE 105 | Achieving Academic Success | 3 | UNV 100T |  |
| PHY 201/202 | College Physics I / Lab | 5 | PHY 211 |  |
|  | **Subtotal Elective Courses** | **11** |  |  |
|  | **TOTAL Associate Degree Hours** | **60** |  |  |

### Northern Kentucky University

#### Category 4: Major Requirements for the BS in Chemistry – Biochemistry Track

| **NKU Course** | **Course** | **Credits** | **GCTC Course** | **Taken at GCTC** |
| --- | --- | --- | --- | --- |
| CHE 125 | Introduction to Chemistry & Biochemistry | 1 |  |  |
| CHE 120/120L | General Chemistry I with Lab | 4 | CHE 170/175 | x |
| CHE 121/121L | General Chemistry II with Lab | 4 | CHE 180/185 | x |
| CHE 300 | Careers in Chemistry | 1 |  |  |
| CHE 310/310L | Organic Chemistry I with Lab | 4 | CHE 270/275 |  |
| CHE 311/311L | Organic Chemistry II with Lab | 4 | CHE 280/285 |  |
| CHE 340/340L | Analytical Chemistry with Lab | 5 |  |  |
| CHE 360 | Physical Chemistry I | 3 |  |  |
| CHE 361/362L | Physical Chemistry II with Lab | 5 |  |  |
| CHE 391W | Chemical Information and Writing | 3 |  |  |
| CHE 400 | Chemistry Seminar | 1 |  |  |
| CHE 482/482L | Biochemistry I with Lab | 4 |  |  |
| CHE 483/483L | Biochemistry II with Lab | 4 |  |  |
| MAT 129 | Calculus I | 4 | MAT 175 | x |
| MAT 227 | Calculus B | 3 | MAT 185 | x |
| MAT 228 | Calculus C | 3 |  |  |
| PHY 211 | General Physics I with Lab | 5 | PHY 201/202 | x |
| PHY 213 | General Physics II with Lab | 5 | PHY 203/204 |  |
| BIO 150/150L | Introduction to Biology I with Lab | 4 | BIO 114/115 | x |
| BIO 151/151L | Introduction to Biology II with Lab | 4 | BIO 116/117 | x |
| BIO 349/349L | Genetics with Lab | 4 |  |  |
| BIO 302/302L  BIO 400/400L  BIO 436  CHE 320/320L  CHE 350/350L | Choose at least two courses from the following (7-9 credits):  General Microbiology with Lab  Advanced Molecular Biology with Lab  Advanced Biology of the Cell  Inorganic Chemistry with Lab  Instrumental Analysis with Lab | 4  4  3  5  5 |  |  |
|  | **Subtotal Major Credit Hours at NKU** | **54-56** |  |  |
|  | **Subtotal Major Credit Hours at GCTC** | **28** |  |  |
|  | **Total Major Credit Hours** | **82-84** |  |  |

To receive ACS certification, CHE 320/320L Inorganic Chemistry with Lab must be selected from the list of options.

**Category 5: Additional Requirements at NKU**

| **NKU Course** | **Course** | **Credits** | **KCTCS Course** | **Taken at KCTCS** |
| --- | --- | --- | --- | --- |
|  | **Subtotal Elective (300/400 level) Hours** | **4-6** |  |  |
|  | **Total Baccalaureate Degree Credit Hours** | **120** |  |  |

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