

# TRANSFER PATHWAY GUIDE

# 2019-2020

Associate in Science to Bachelor of Science in Mathematics

with Secondary Education

## 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 Mathematics with Secondary Education 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 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) 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. In addition, students must meet the following requirements for admission into Education. Courses in parentheses are GCTC course equivalencies.

* A minimum overall GPA of 2.75
* A minimum grade of “B” in CMST 101 (COM 181) and ENG 102 (ENG 102)
* A minimum grade of “C” in all other pre-admission courses and required EDU and EDS courses which include EDU 300 (EDP 202), EDU 305 (EDU 201), EDU 313 (EDU 204), and EDS 360 (EDP 203).
* Praxis Core Academic Skills for Educators: Reading (5712) – 156 or higher, Writing (5722) – 162 or higher and Mathematics (5732) – 150 or higher
* Pass criminal background check
* 60 semester hours completed
* An acceptable portfolio
* A completed application to the Teacher Education program

## 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 majoring in Education must maintain a GPA of 2.75 overall in major courses in order to enroll in the clinical experience. Students wishing to be certified to teach mathematics at the secondary level must complete the requirements for the B.A. in Secondary Education along with the requirements for a B.S. in Mathematics.

## 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 MATHEMATICS WITH SECONDARY EDUCATION CHECKLIST

### Gateway Community and Technical College

#### Category 1: GCTC General Education Core Requirements (38 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKUCourse** | **Completed** |
| --- | --- | --- | --- | --- |
| ENG 101 | Writing I (WC) | 3 | ENG 101 |  |
| ENG 102 | Writing II (WC) | 3 | ENG 102 |  |
| COM 181 | Basic Public Speaking (OC) | 3 | CMST 101 |  |
| TBS XXX | Arts and Humanities (AH) Heritage | 3 | TBD XXX |  |
| TBS XXX | Arts and Humanities (AH) Humanities | 3 | TBD XXX |  |
| PSY 110 | General Psychology (SB) | 3 | PSY 100 |  |
| TBS XXX | Social & Behavioral Sciences Course (SB) | 3 | TBD XXX |  |
| TBS XXX | Natural Sciences (NS) | 3 | TBD XXX |  |
| TBS XXX | Natural Sciences with Lab (SL) | 4 | TBD XXX |  |
| MAT 175 | Calculus I (QR) | 5 | MAT 129 |  |
| MAT 185 | Calculus II (QR) | 5 | MAT 227 |  |
|  | **Subtotal General Education Core Courses** | **38** |  |  |

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 (10 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKUCourse** | **Completed** |
| --- | --- | --- | --- | --- |
| MAT 261 | Introduction to Number Theory | 3 | MAT 310 |  |
| MAT 275 | Calculus III | 4 | MAT 329 |  |
| MAT 285 | Differential Equations | 3 | MAT 325 |  |
|  | **Subtotal AS Requirement Courses** | **10** |  |  |

#### Category 3: GCTCS Electives (15 hours)

| **GCTC Course** | **Course or Category** | **Credits** | **NKUCourse** | **Completed** |
| --- | --- | --- | --- | --- |
| FYE 105 | Achieving Academic Success | 3 | UNV 100T |  |
| EDU 201 | Introduction to American Education | 3 | EDU 305 |  |
| EDU 204 | Technology in the Classroom | 3 | EDU 313 |  |
| EDP 202 | Human Development and Learning | 3 | EDU 300 |  |
| EDP 203 | Teaching Exceptional Learners in Regular Classrooms | 3 | EDS 360 |  |
|  | **Subtotal Elective Courses** | **15** |  |  |
|  | **TOTAL Associate Degree Hours** | **63** |  |  |

### Northern Kentucky University

#### Category 4: Major Requirements for BS in Mathematics with Secondary Education

| **NKU Course** | **Course** | **Credits** | **GCTC Course** | **Taken at GCTC** |
| --- | --- | --- | --- | --- |
| EDU 104 | Orientation: Education Profession/Program | 1 |  |  |
| EDU 300 | Human Growth and Development | 3 | EDP 202 | x |
| EDU 304orEDU 530 | Reading and Writing Across the Curriculum: Middle Grades orReading in Junior and Senior High School | 3 |  |  |
| EDU 305 | Introduction to Education | 2 | EDU 201 | x |
| EDU 311 | Admission Field Experience Secondary | 2 |  |  |
| EDU 313 | Instructional Technology | 2 | EDU 204 | x |
| EDU 316 | Racism and Sexism in Educational Institutions | 3 |  |  |
| EDU 319 | Classroom Climate Management Secondary | 1 |  |  |
| EDU 324 | Fundamentals of Secondary Education | 2 |  |  |
| EDU 325 | Educational Assessment Secondary | 2 |  |  |
| EDU 333 | Teaching Math in Secondary School | 3 |  |  |
| EDU 393 | Secondary Field Experience I | 2 |  |  |
| EDU 396 | Secondary Field Experience II | 2 |  |  |
| EDU 496 | Clinical Experience Secondary | 12 |  |  |
| EDS 324 | Instructional Planning for Inclusive Secondary Classrooms | 3 |  |  |
| EDS 360 | Students with Exceptionalities in School | 3 | EDP 203 | x |
| PSY 100 | Introduction to Psychology | 3 | PSY 110 | x |
| CMST 101 | Public Speaking | 3 | COM 181 | x |
| ENG 102 | Advanced College Writing | 3 | ENG 102 | x |
| MAT 129 | Calculus I | 4 | MAT 175 | x |
| MAT 229 | Calculus II | 5 | MAT 185 (withMAT 275) | x |
| MAT 329 | Calculus III | 4 | MAT 275 | x |
| MAT 194 | Mathematical Sciences Seminar | 1 |  |  |
| MAT 234 | Linear Algebra | 3 |  |  |
| MAT 302 | Introduction to Higher Mathematics | 3 |  |  |
| MAT 489 | Comprehensive Examination | 0 |  |  |
| STA 250 | Probability and Statistics I | 3 |  |  |
| CSC 270 orCSC 260 | Mathematics Software Programming orObject-Oriented Programming  | 3 | CIT 238 |  |
| MAT 345 | Introduction to Higher Geometry | 3 |  |  |
| STA 341 | Statistics II | 3 |  |  |
| Select 2:MAT 310MAT 410MAT 415 | Select two courses from the following:Elementary Theory of NumbersGroup TheoryRings and Fields | 6 | MAT 261 | x |
| Select 1:MAT 360MAT 420MAT 430 | Select one course from the following:Numerical AnalysisReal Variables IComplex Variables | 3 |  |  |
| MAT XXX | Select three additional hours of MAT or STA electives at the 300 level or above | 3 | MAT 285 | x |
|  | **Subtotal Major Credit Hours at NKU**  | **61** |  |  |
|  | **Subtotal Major Credit Hours at GCTC** | **38** |  |  |
|  | **Total Major Credit Hours** | **99** |  |  |
|  | **Total Baccalaureate Degree Credit Hours** | **124** |  |  |

Updated July 2019