

# transfer pathway guide

# 2019-2020

Associate of General Studies in General Studies To

Bachelor of Science in Mathematics with Secondary Education

## Overview

Completion of the following curriculum will satisfy the requirements for the **Associate of General Studies in General Studies** degree at Ivy Tech Community College and leads to the **Bachelor of Science in Mathematics with Secondary Education** degree at Northern Kentucky University.

## Applying to the IvyTech2NKU 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 Ivy Tech, enrolled in an associate degree program, plan to transfer to NKU, and maintain a minimum 2.0 cumulative GPA at Ivy Tech.

## Degree Requirements for Ivy Tech

To earn a degree at Ivy Tech a student must successfully complete the required number of credits for the degree, attain a minimum GPA of 2.0 in the required technical and general education courses, and complete at least 15 degree credits in the curriculum as a regular student of Ivy Tech.

## Admission Requirements for NKU

Students completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into NKU. The admission requirements for a Bachelor of Arts degree in Early Childhood Education are below. (Courses in parentheses are Ivy Tech course equivalents)

* A minimum overall GPA of 2.75
* A minimum grade of “B” in CMST 101 (COMM 101) and ENG 102 (ENGL 215)
* A minimum grade of “C” in all other pre-admission courses and required EDU and EDS courses, which include EDU 300 (PSYC 201), EDU 305 (EDU 101), EDU 313 (EDUC 201), EDU 316 (EDUC 255), and EDS 360 (EDUC 230).
* Praxis Core Academic Skills for Educators: Reading (5712) – 156 or higher, Writing (5722) – 162 or higher and Mathematics (5732) – 150 or higher (IECE certification Track)
* Pass criminal background check
* 60 semester hours completed
* An acceptable portfolio
* A completed application to the Teacher Education program
* A completed application to Northern Kentucky University

Students wishing to be certified to teach mathematics at the secondary level must complete the requirements for the Secondary Education major along with the requirements for a Mathematics major.

## 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 requirements for the major. In some cases, students must complete a focus or minor as indicated on the pathway.

### Ivy Tech Community College of Indiana

Students must complete the following courses of an Associate of General Studies in General Studies.

#### Category 1: Transfer General Education Core (TGEC) Competencies

| **ITCC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| ENGL 111 | English Composition | 3 | ENG 101 |  |
| COMM 101 | Fundamentals of Public Speaking | 3 | CMST 101 |  |
| MATH 211 | Calculus I | 4 | MAT 129 |  |
| MATH 212 | Calculus II | 4 | MAT 227 |  |
| PSYC 101 | Introduction to Psychology | 3 | PSY 100 |  |
| PSYC 201 | Lifespan Development | 3 | EDU 300 |  |
| XXXX XXX | Humanistic and Artistic Ways of Knowing | 3 | TBD XXX |  |
| XXXX XXX | Scientific Ways of Knowing | 3 | TBD XXX |  |
| XXXX XXX | Transfer General Education Core (TGEC) Elective | 3 | TBD XXX |  |
| XXXX XXX | Transfer General Education Core (TGEC) Elective | 3 | TBD XXX |  |
|  | **Subtotal General Education Core** | **32** |  |  |

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

#### Category 2: Degree Requirements for Associate of General Studies in General Studies

| **ITCC Course** | **Course or Category** | **Credits** | **NKU Course** | **Completed** |
| --- | --- | --- | --- | --- |
| IVYT 111 | Student Success in University Transfer | 1 | UNV 100T |  |
| COMM 102 or  PHIL 102 or  POLS 101 | Introduction to Interpersonal Communication or  Introduction to Ethics or  Introduction to American Government & Politics | 3 | CMST 220  PHI 200  PSC 100 |  |
| ENGL 215 | Rhetoric and Argument | 3 | ENG 102 |  |
| EDUC 101 | Introduction to Teaching | 3 | EDU 305 |  |
| EDUC 201 | Technology in Education | 2 | EDU 313 |  |
| EDUC 121 | Child and Adolescent Development | 3 | EDU 300T |  |
| EDUC 230 | The Exceptional Child | 3 | EDS 360 |  |
| EDUC 255 | Multicultural Teaching | 3 | EDU 316 |  |
| XXXX XXX | Statewide or Transfer Cluster Electives | 3 | TBD XXX |  |
| XXXX XXX | Statewide or Transfer Cluster Electives | 3 | TBD XXX |  |
| GENS 279 | General Studies Capstone Course | 1 | GIS 100G |  |
|  | **Total Associate Degree Credit Hours** | **60** |  |  |

### Northern Kentucky University

Students must complete the following courses for a major in Secondary Education.

#### Category 3: Major Requirements for Secondary Education

| **NKU Course** | **Course** | **Credits** | **ITCC Course** | **Taken at ITCC** |
| --- | --- | --- | --- | --- |
| EDU 104 | Orientation: Education Profession/Program | 1 |  |  |
| EDU 300 | Human Growth and Development | 3 | PSYC 201 | x |
| EDU 304 or  EDU 530 | Reading and Writing Across the Curriculum: Middle Grades or  Reading in Junior and Senior High School | 3 |  |  |
| EDU 305 | Introduction to Education | 2 | EDUC 101 | x |
| EDU 311 | Admission Field Experience Secondary | 2 |  |  |
| EDU 313 | Instructional Technology | 2 | EDUC 201 | x |
| EDU 316 | Racism and Sexism in Education al Institutions | 3 | EDUC 255 | x |
| EDU 319 | Classroom Climate Management Secondary | 1 |  |  |
| EDU 324 | Fundamentals of Secondary Education | 2 |  |  |
| EDU 325 | Educational Assessment Secondary | 2 |  |  |
| EDU 333 | Teach Math in the 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 | EDUC 230 | x |
| PSY 100 | Introduction to Psychology | 3 | PSYC 101 | x |
| CMST 101 | Public Speaking | 3 | COMM 101 | x |
| ENG 102 | Advanced College Writing | 3 | ENGL 215 | x |
|  | **Subtotal NKU Education Courses Credit Hours** | **33** |  |  |

EDU 311 is waived if student provides documentation of 50 hours of field experience in an education setting. If EDU 311 is waived, student must complete EDU 334: Portfolio Development (1 credit).

Students must complete the following courses for a major in Mathematics.

#### Category 4: Major Requirements for Mathematics

| **NKU Course** | **Course** | **Credits** | **ITCC Course** | **Taken at ITCC** |
| --- | --- | --- | --- | --- |
| MAT 129 | Calculus I | 4 | MATH 211 | x |
| MAT 229 or  MAT 227 and  MAT 228 | Calculus II or  Calculus B and Calculus C  (still need MAT 228 for 3 credits) | 5-6 | MATH 212 = MAT 227 | x  (3 cr) |
| MAT 329 | Calculus III | 4 | MATH 212 + MATH 261 =  MAT 229 + MAT 329 |  |
| MAT 194 | Mathematical Sciences Seminar | 1 |  |  |
| MAT 234 | Linear Algebra | 3 | MATH 265 |  |
| STA 250 | Probability and Statistics | 3 |  |  |
| MAT 489 | Comprehensive Examination | 0 |  |  |
| CSC 270 or  CSC 260 | Mathematics Software Programming or  Object-Oriented Programming | 3 |  |  |
| MAT 302 | Introduction to Higher Mathematics | 3 |  |  |
| MAT 345 | Introduction to Higher Geometry | 3 |  |  |
| STA 341 | Statistics II | 3 |  |  |
| Select 2:  MAT 310  MAT 410  MAT 415 | Select two courses from the following:  Elementary Theory of Numbers  Group Theory  Rings and Fields | 6 |  |  |
| Select 1:  MAT 360  MAT 420  MAT 430 | Select one course from the following:  Numerical Analysis  Real Variables I  Complex Variables | 3 |  |  |
| MAT XXX or  STA XXX | Select three additional hours of MAT or STA electives at the 300 level or above | 3 | MATH 264  (equates to MAT 325) |  |
|  | **Subtotal NKU Mathematics Courses Credit Hours** | **38** |  |  |
|  | **Total Baccalaureate Degree Credit Hours** | **131** |  |  |

Updated May 2019 for Fall 2019 Start