

TRANSFER PATHWAY GUIDE

2023-2024

Associate of Science in Biology (TSAP) To
Bachelor of Science in Biological Sciences

Overview

Completion of the following (AS) in
CC) and leads to the Bachelor of Science (BS) in
ity (NKU).

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

Students pursuing a degree in the biological sciences may do so by choosing one of five different tracks. These tracks allow the individual student to place an emphasis on areas of biology that they find 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. A biological sciences major does not require a secondary area of study (e.g. minor or focus).

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Ivy Tech Community College of Indiana

Category 1: ITCC Indiana College Core 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	
PHYS 101	Physics I	4	PHY 211	
PHYS 102	Physics II	4	PHY 213	
BIOL 221	Molecular Biology	4	BIO 400/400L	
XXXX 102	Foreign Language II (FREN, GERM, SPAN)			

Northern Kentucky University

All students must complete the core requirements for a BS in Biological Sciences.

Category 3: NKU Core Requirements for the BS in Biological Sciences

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
BIO 150/150L	Introduction to Biology I with lab	4	BIOL 105	x
BIO 151/151L	Introduction to Biology II with lab	4	BIOL 107	x
BIO 155	Orientation to Biology	1		
BIO 291W	Advanced Writing in Biology	3		
BIO 304	General Ecology	3	BIOL 240	x
BIO 349/349L	Genetics with lab	4	BIOL 222	
BIO 458	Evolution of Organisms	3		
BIO 491	Comprehensive Examination	0		
CHE 120/120L	General Chemistry I with lab	4	CHEM 105	x
CHE 121/121L	General Chemistry II with lab	4	CHEM 106	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	PHYS 101/102	x
STA 205	Statistical Methods	3	MATH 200	
	Foreign Language (must complete a course at the 102 or higher level or CLEP or AP exam equivalency)	0-6		x
	Choose one of the following tracks: General Biology (B.S.) Track Cellular/Molecular/Genetics Track Ecology/Evolution/Organismal Track Forensic Science Track Pharmaceutical Sciences Track Courses are listed in Categories 5 – 9 tables below.	22-59		
	Subtotal Major Credit Hours at NKU	36-73		
	Subtotal Major Credit Hours at ITCC	30		
	Total Major Credit Hours	66-103		

Students will complete either BIOL 240 or BIOL 222 while at Ivy Tech.

Category 4: Additional Requirements at NKU

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
	Subtotal Elective (300/400 level) Hours	0-24		
	Total Baccalaureate Degree Credit Hours	120-133		

The Pharmaceutical Track is the only track that will result in more than 120 credit hours to complete the baccalaureate degree.

Category 5: NKU Requirements for the General Biology Track

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
BIO 304L	Ecology Laboratory	1		

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
CHE 483	Biochemistry II	3		
MAT 112 or MAT 128 or MAT 129	Applied Calculus or Calculus A or Calculus I	3-4	MATH 211	x
	Additional NKU Credit Hours	24-27		

TBS XXX means to be selected.

Category 7: NKU Requirements for the Ecology/Evolution/Organismal Track

NKU Course	Course	Credits	ITCC Course	Taken at ITCC
BIO 342	Biometry	3		
BIO 304L	Ecology Laboratory	1		
TBS XXX	Select four courses from the ecology/evolution/organismal group	12-16		
CHE 310/310L CHE 311/311L or GEO (s)15.5 (ma)5	Organic Chemistry I with lab	4	CHEM 211	

