



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to Bachelor of Science in Biological Sciences (Medical Laboratory Sciences Track)

Overview

Completion of the following curriculum will satisfy the requirements for the Associate in Science (AS) degree at Gateway Community and Technical College (GCTC) and leads to the Bachelor of Science (BS) in Biological Sciences Medical Laboratory Sciences degree at Northern Kentucky University (NKU).

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. Demonstration of digital literacy
5. 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:

1. Complete a minimum of 120 credit hours
2. Complete at least 25% of the credits required at NKU
3. Complete the last 30 credit hours at NKU
4. Complete at least 45 credit hours at 300 level or above
5. Minimum 2.0 cumulative GPA across all major coursework
6. Meet all requirements for the major

7. Completion of a minor, focus, or second major (if required by 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 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. Details concerning the biology core, support core, and the forensic science track follow.

Even though a biological sciences major does not require a secondary area of study (e.g. minor or focus), students who complete the forensic science track will earn a minor in chemistry as the requirements for this minor are built into this track.

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 annual scholarships (fall and spring only). 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.

Tuition and scholarship information specific to transfer students can be viewed on the NKU Adult & Transfer website.

**GCTC AS TO NKU BS IN BIOLOGICAL SCIENCES
(CELLULAR/MOLECULAR/GENETICS TRACK) CHECKLIST**

Gateway Community and Technical College

Category 1: GCTC General Education Core Requirements

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	Social/Behavioral Science (SB)	3	TBD XXX	
TBS XXX	Social/Behavioral Science (SB)	3	TBD XXX	
BIO 114/115	Biology I with Lab (NS)	4	BIO 150/150L	
BIO 116/117	Biology II with Lab (SL)	4	BIO 151/151L	
MAT 150	College Algebra (QR)*	3	(MAT 102 or MAT 103) + MAT 100T	
STA 220	Statistics (QR)	3	STA 205	
	Subtotal General Education Core Courses	35		

TBS XXX means to be selected by GCTC student.

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

*MAT 150 is a prerequisite for science and mathematics courses. A grade of A or B in MAT 150 equates to MAT 103 + MAT 100T at NKU. A grade of C or D in MAT 150 equates to MAT 102 + MAT 100T.

For Social and Behavioral Sciences courses, two disciplines must be represented and different from those in the Arts and Humanities category.

Category 2: GCTC AS Requirements

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

*Labs must be taken in person.

Category 3: GCTC Electives

GCTC Course	Course or Category	Credits	NKU Course	Completed
FYE 105 or FYE 110	Achieving Academic Success or First Year Experience and Applications	3	UNV 100T	

GCTC Course	Course or Category	Credits	NKU Course	Completed
CIT 105 or OST 105	Introduction to Computers or Intro to Information Systems	3	INF 101	
PHY 201/202	General College Physics I / Lab	5	PHY 211	
PHY 203/204	General College Physics II and Laboratory	5	PHY 213	
	Subtotal Elective Courses	16		
	Total Associate Degree Hours	61		

If completing digital literacy using other means (like FYE 110), additional credits will be required in order to fulfill elective requirements.

Northern Kentucky University

Category 4: NKU 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 Lab	4	BIO 114/115	x
BIO 151/151L	Introduction to Biology II and Lab	4	BIO 116/117	x
BIO 155	Orientation to Biology	1		
BIO 291W	Advanced Writing in Biology	3	Taken at NKU	x
BIO 302/302L	General Microbiology with Lab	4		
BIO 304/304L	General Ecology	4		
BIO 349/349L	Genetics and Laboratory	4		
BIO 436	Advanced Biology of the Cell	3		
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
CHE 310/310L	Organic Chemistry I / Lab	4	CHE 270/275	
CHE 311/311L	Organic Chemistry II / Lab	4	CHE 280/285	
CHE 482	Biochemistry I	3		
CHE 483	Biochemistry II	3		
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	x
MAT 112 or MAT 128 or MAT 129	Applied Calculus or Calculus A or Calculus I	3-4	MAT 170 or MAT 175	
STA 205	Statistical Methods	3	STA 220	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		

Category 5 NKU Track Requirements for the Biological Sciences Medical Laboratory Sciences Track

NKU Course	Course Credits	Credits	GCTC Course	Taken at GCTC
BIO 302/302L	General Microbiology with Lab	4		
CHE 310/310L	Organic Chemistry and Laboratory I	4	CHE 270/275	
CHE 311/311L	Organic Chemistry with Laboratory II	4	CHE 280/285	
External	Credits completed through St. Elizabeth	34		
	Subtotal Major Credit Hours at NKU	49-55		
	Subtotal Credit Hours at GCTC	61		
	Total Credit Hours	110-116		

Note: Students majoring in BS Biological Sciences may choose from the following tracks: General Biology Track, Cellular/Molecular/Genetics Track, Ecology/Evolution/Organismal Track, Forensic Science Track, Medical Laboratory Sciences or Pharmaceutical Sciences Track. Category 5 above outlines the courses for the Medical Laboratory Sciences Track. Students interested in another track should explore the existing pathways and the course catalog and work with their Gateway and NKU advisors. Additionally, students interested in Pre-Med, Pre-Physician Assistant, or Pre-Dental coursework should see the Biological Sciences (Cellular/Molecular/Genetics Track) pathway.

Category 6: Additional Requirements at NKU

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
	Subtotal Elective (including 300/400 Level) Credit Hours	4-10		
	Total Baccalaureate Degree Credit Hours	120		

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