



TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2025-2026

Associate in Science to
Bachelor of Science in Chemistry (General Chemistry 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 Chemistry (General Chemistry Track) 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

1. Complete a minimum of 120 credit hours
2. Complete at least 25% of the credit hours required at NKU
3. Complete the last 30 credit hours at NKU
4. Complete at least 45 credit hours numbered 300 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 may receive American Chemical Society (ACS) certification in the Bachelor of Science in Chemistry (General Chemistry Track) by selecting appropriate course options.

Note: Students majoring in the BS in Chemistry may choose from the following tracks: General Chemistry Track, Biochemistry Track, Forensics Track, or Pharmaceutical Sciences Track. This pathway outlines the courses for the General Chemistry Track. Students interested in another track should see the course catalog or transfer pathway and work with an NKU advisor. Additionally, NKU offers a Bachelor of Arts in Chemistry. Students wishing to be certified to teach chemistry at the secondary level should complete the BA in Chemistry along with a BA in Secondary Education.

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 CHEMISTRY (GENERAL CHEMISTRY 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	
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 171	Pre-Calculus (QR)	5	MAT 119	
MAT 175	Calculus I (QR)	5	MAT 129	
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.

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

*Labs must be taken in person.

Category 2: GCTC AS Requirements

GCTC Course	Course or Category	Credits	NKU Course	Completed
PHY 201/202	College Physics I / Lab	5	PHY 211	
PHY 203/204	College Physics II / Lab	5	PHY 213	
Subtotal AS Requirement Courses		10		

Category 3: GCTC Electives

GCTC Course	Course or Category	Credits	NKU Course	Completed
CIT 105 or OST 105*	Introduction to Computing or Introduction to Information Systems	3	INF 101	
FYE 105 or FYE 110	Achieving Academic Success or First Year Experience and Applications	3	UNV 100T	
MAT 185	Calculus II	5	MAT 229	
Subtotal Elective Courses		11		
TOTAL Associate Degree Hours		62		

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 Core Requirements for the BS in Chemistry

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 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 391W	Chemical Information and Writing	3		
CHE 482	Biochemistry I	3		
MAT 129	Calculus I	4	MAT 175	x
MAT 229	Calculus II	5	MAT 185	x
PHY 211	General Physics I with Lab	4	PHY 201/202	x
PHY 213	General Physics II with Lab	4	PHY 203/204	x

Category 5: NKU Major Track Requirements for the BS in Chemistry – General Chemistry Track

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
CHE 300	Careers in Chemistry	1		
CHE 320/320L	Inorganic Chemistry with Lab	5		
CHE 350/350L	Instrumental Analysis with Lab	5		
CHE 361/362L	Physical Chemistry II with Lab	5		
CHE 400	Chemistry Seminar	1		
CHE 410 CHE 440 CHE 450 CHE 460/460L CHE 483 CHE 511 CHE 512 CHE 560	Choose at least 3 credit hours from the following: Spectrometric Identification of Compounds Environmental Chemistry Advanced Chemical Analysis Molecular Spectroscopy with Lab Biochemistry II Natural and Medicinal Product Synthesis Physical Organic Chemistry Quantum Mechanics	3-4		
CHE 392 CHE 482L CHE 483L CHE 492 CHE 505	Choose at least 3 credit hours from the following: Advanced laboratory Projects (1-3) Biochemistry I Lab (1) Biochemistry II Lab (1) Research: Chemistry (1-3) The History of Chemistry (2-3)	3		
	Subtotal Major Credit Hours at NKU	46-47		
	Subtotal Major Credit Hours at GCTC	25		

NKU Course	Course	Credits	GCTC Course	Taken at GCTC
	Total Major Credit Hours	71-72		
	Subtotal of Additional Credit Hours Completed at GCTC	37		

Note: Students majoring in BS Chemistry may choose from the following tracks: General Chemistry Track, Biochemistry Track, Forensics Track, or Pharmaceutical Sciences Track. Category 5 above outlines the courses for the General Chemistry Track. Students interested in another track should see the course catalog and work with an NKU advisor. Additionally, students interested in Pre-Veterinary Medicine coursework should see the Chemistry (Biochemistry Track) pathway.

Category 6: Additional Requirements at NKU

NKU Course	Course	Credits	KCTCS Course	Taken at KCTCS
	Subtotal Elective Hours	11-12		
	Total Baccalaureate Degree Credit Hours	120		

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