

TRANSFER PATHWAY GUIDE

2022-2023

Associate of Science in Chemistry at Sinclair College to a Bachelor of Science in Chemistry (General Chemistry Track) at Northern Kentucky University

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Science (AS) in Chemistry degree at Sinclair College and leads to the Bachelor of Science (BS) in Chemistry (General Chemistry Track) degree at Northern Kentucky University (NKU).

Degree Requirements for Sinclair College

To earn a degree at Sinclair College, a student must complete a minimum of 60 credit hours, attain a minimum cumulative GPA of 2.0, and earn a minimum of 20 credit hours at Sinclair College.

Admission Requirements for NKU

Students completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into NKU.

Tuition and Scholarships

For information on tuition and scholarships, please visit <https://nku.edu/admissions/adult/online.html>

NKU Contact

For more information, students should contact Joel W. Vanhooose, Transfer Pathway Coordinator, at vanhooosej2@nku.edu.

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. In addition, students must have a minimum GPA of 2.0 across all major coursework and earn at least a C- in each course counted toward the major. A minor is not required for this 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 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.

SINCLAIR COLLEGE AS IN CHEMISTRY TO NKU BS IN CHEMISTRY CHECKLIST

Sinclair College

Category 1: Sinclair Requirements for the AS in Chemistry

Sinclair Course	Course or Category	Credits	NKU Course	Completed
CHE 1211	General Chemistry I	5	CHE 120/120L	
CHE 1221	General Chemistry II	5	CHE 121/121L	
CHE 2111	Organic Chemistry I	5	CHE 310/310L	
CHE 2121	Organic Chemistry II	5	CHE 311/311L	
COM 2206 or COM 2211 or COM 2225	Interpersonal Communication or Effective Public Speaking or Small Group Communication	3	CMST 220 CMST 101 CMST 230	
ENG 1101	English Composition I	3	ENG 101	
ENG 1201	English Composition II	3	ENG 102	
MAT 2270	Calculus & Analytic Geometry I	5	MAT 129	
MAT 2280	Calculus & Analytic Geometry II	5	MAT 229	
MAT 2290	Calculus & Analytic Geometry III	5	MAT 329	
MET 1131	Personal Computer Applications for Engineering Technology	1	EGT 100T	
SCC 1101	First Year Experience	1	UNV 101	
TBS XXX	Multicultural Elective	3	TBD XXX	
TBS XXX	Ohio Transfer 36: Arts & Humanities Elective	6	TBD XXX	
TBS XXX	Ohio Transfer 36: Social & Behavioral Sciences Elective	6	TBD XXX	
Total Associate Degree Hours		61		

TBS XXX means to be selected by Sinclair College student.

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

Northern Kentucky University

Category 2: NKU Major Requirements for the BS in Chemistry (General Chemistry Track)

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
CHE 125	Introduction to Chemistry & Biochemistry	1		
CHE 120/120L	General Chemistry I with Lab	4	CHE 1211	x
CHE 121/121L	General Chemistry II with Lab	4	CHE 1221	x
CHE 310/310L	Organic Chemistry I with Lab	4	CHE 2111	x
CHE 311/311L	Organic Chemistry II with Lab	4	CHE 2121	x
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 2270	x
MAT 229	Calculus II	5	MAT 2280	x
PHY 211 and PHY 213 or PHY 220 and PHY 222	General Physics I with Lab and General Physics II with Lab or University Physics I with Lab and University Physics II with Lab	8		
	General Chemistry Track			
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		
CHE 392 CHE 482L CHE 483L CHE 492 CHE 505	Choose at least 3 credit hours from the following: Advanced laboratory Projects (1-3 hrs) Biochemistry I Lab (1 hr) Biochemistry II Lab (1 hr) Research: Chemistry (1-3 hrs) The History of Chemistry (2-3 hrs)	3		
	Total NKU Major Credit Hours	71		
	Less Major Credit Hours from Sinclair	25		

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
	Subtotal Major Credit Hours at NKU	46		

Category 3: Additional Requirements at NKU

NKU Course	Course	Credits	Sinclair Course	Taken at Sinclair
	Subtotal Elective (some 300/400 level) Hours	13		
	Total Baccalaureate Degree Credit Hours	120		

Updated April 2022