



TRANSFER PATHWAY GUIDE 2023-2024

Associate in Science to Bachelor in Science in Chemistry (Option: Traditional)

Overview

Completion of the following curriculum will satisfy the requirements for an Associate in Science at the Kentucky Community and Technical College System and leads to a BS in Chemistry (Option: Traditional) at the University of Kentucky.

Admission Requirements

Students must meet the University admission requirements in order to be admitted into any major within the College of Arts and Sciences.

KCTCS students planning to transfer to the University of Kentucky should work closely with a UK Transfer Advisor each semester to ensure that both KCTCS and UK degree requirements are met.

Degree Requirements

The College of Arts & Sciences requires that students complete foreign language courses above the university requirement. Students must either: 1) Obtain proficiency through the fourth level of one language or 2) Obtain proficiency through the third level of a language different from that taken in high school. The high school language must have been taken through the second level. All students are provided the opportunity to take a placement exam in any language to determine the appropriate class.

General Transfer Requirements

All prospective transfer students are encouraged to receive advising from the University of Kentucky Transfer Center. Appointments are offered online and in-person, and can be scheduled online at <https://www.uky.edu/admission/transfer-advising>.

Additionally, we recommend reviewing the transfer admission requirements (<https://www.uky.edu/admission/transfer-requirements>) and the Frequently Asked Questions (<https://www.uky.edu/admission/transfer/frequently-asked-questions>) on our website: <https://www.uky.edu/admission/transfer>.

For more information, please contact the UK Transfer Center by email at UKTransfer@uky.edu, by phone at 859-257-2000, or in-person in Room 100 of the Funkhouser Building on UK's campus.

KCTCS ASSOCIATE IN SCIENCE TO UNIVERSITY OF KENTUCKY BACHELOR OF SCIENCE IN CHEMISTRY (Option: Traditional) CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Core Requirements (33 hours)

KCTCS Course	Course or Category	Credits	UK 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	Heritage (AH)	3	TBD XXX	
TBS XXX	Humanities (AH)	3	TBD XXX	
TBS XXX	Social and Behavioral Science (SB)	3	TBD XXX	
TBS XXX	Social and Behavioral Science (SB)	3	TBD XXX	
CHE170+175	General Chemistry I with Lab (NS)	5	CHE105/111	
CHE180+185	General Chemistry II with Lab (NS)	5	CHE 107/113	
MAT174/175	Calculus I (QR)	5	MA 113	
STA251/296U	Statistical Methods and Motivations	3	STA 296U	
	Subtotal General Education Core Courses	39		

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by University of Kentucky based on course selected.

One of these courses must be selected from the KCTCS identified Cultural Studies course list, indicate by placing (CS) next to the course name in Category 1 or 2 table.

Category 2: KCTCS AS Requirements (6 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
PHY 231/241	General University Physics & Lab	5	PHY 231/241	
PHY 232/242	General University Physics & Lab	5	PHY 232/242	
	Subtotal AA/AS Requirement Courses	10		

Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
TBS XXX	Digital Literacy	3	TBD XXX	
TBS XXX	First-Year Experience	3	TBD XXX	
MAT 184/185	Calculus II	5	MA 114	
MAT 275	Calculus III	4		
CHE 270/275	Organic Chemistry I & Lab	5	CHE 230/231	
CHE 280	Organic Chemistry II	3	CHE 232	
	Subtotal Elective Courses	23		
	TOTAL Associate Degree Hours	72		

University of Kentucky

Major Requirements for Bachelor of Science degree in Chemistry (Option: Traditional)

UK Course	Course	Credits	KCTCS Course	Taken at KCTCS
TBD XXX	A&S Race & Ethnicity	3	TBD XXX	
TBD XXX	A&S Foreign Language	4	TBD XXX	
TBD XXX	A&S Foreign Language	4	TBD XXX	
TBD XXX	A&S Foreign Language	3	TBD XXX	
TBD XXX	A&S Foreign Language	3	TBD XXX	
CHE 226	Analytical Chemistry	3		
CHE 410G	Inorganic Chemistry	2		
CHE 412	Inorganic Chemistry Laboratory	2		
CHE 422	Instrumental Analysis	4		
CHE 441	Physical Chemistry Lab	2		
CHE 442G	Thermodynamics and Kinetics	3		
CHE 532	Spectromet id-org Molecules	2		
CHE 533	ADV Org Chem Lab	2		
CHE 547	Prin of Physical Chemistry	3		
CHE 550 or 552	Biological Chemistry I or II	3		
TBD XXX	Chemistry (BS) Major Field Options	6		
MA 322	Matrix Algebra & Appls	3		
WRD 310	Writing in the Natural Sciences	3		
TBD XXX	Elective	1		
Subtotal UK Credit Hours			56	
Total Baccalaureate Degree Credit Hours			126	

Updated: Fall 2023

Sample Course Sequence: KCTCS Associate in Science to UK Bachelor of Science Degree in Chemistry (Option Traditional)

KCTCS Fall Semester 1	
ENG 101	3
CHE 170/175	5
Social & Behav. Sci.	3
MAT 174/175	5
First Year Experience	3
Total	19

KCTCS Spring Semester 1	
ENG 102	3
CHE 180/185	5
MAT 184/185	5
PHY 231/241	5
Total	18

KCTCS Summer Semester 1	

KCTCS Fall Semester 2	
PHY 232/242	5
CHE 270/275	5
Humanities Course	3
MAT 275	4
Total	17

KCTCS Spring Semester 2	
CHE 280	3
Oral Com. Course	3
STA 251/296U	3
Social & Behav. Sci	3
Heritage Course	3
Total	15

KCTCS Summer Semester 2	

UK Fall Semester 3	
A&S F L	4
CHE 226	3
CHE 547	3
CHE 532	2
MA 322	3
Total	15

UK Spring Semester 3	
A&S F L	4
CHE 410G	2
CHE 441	2
CHE 442G	3
CHE 533	2
Total	13

UK Summer Semester 3	

UK Fall Semester 4	
A&S F L	3
A&S Race & Ethnicity	3
CHE 412	2
CHE 442	4
CHE 550	3
Major Field Option	3
Total	18

UK Spring Semester 4	
A&S F L	3
Major Field Option	3
WRD 310	3
Elective	1
Total	10

UK Summer Semester 4	