TRANSFER PATHWAY GUIDE
2022-2023

Associate in Science to Bachelor of Science in Chemical Engineering

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 the Bachelor of Science in Chemical Engineering at the University of Kentucky.

Admission Requirements

Engineering Standing upon transfer is available to students who maintain an overall and pre-major GPA of 2.5. Pre-major courses considered in the standing for Chemical Engineering include the following or their equivalencies: CHE 105, CHE 107, CHE 111, CHE 113, CIS/WRD 110, MA 113, MA 114, MA 213 and PHY 231. Additionally, students must complete CME 200 with a grade of C or better.

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

Students can transfer a total of 67 credit hours from a two-year institution. Additionally, 30 of the final 36 credit hours earned toward a UK degree must be completed at UK. To graduate, students must maintain a 2.0 cumulative GPA and complete 120 total credit hours.

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 CHEMICAL ENGINEERING 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	
CHE 170/175	General College Chemistry I (NS)	5	CHE 105/111	
CHE 180/185	General College Chemistry II (NS)	5	CHE 107/113	
MAT 174/175	Calculus I (QR)	4-5	MA 113	
MAT 184/185	Calculus II (QR)	4-5	MA 114	
	Subtotal General Education Core	**39-41**		

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	University Physics I	4	PHY 231	
PHY 232	University Physics II	4	PHY 232	
	Subtotal AA/AS Requirement Courses	**8**		

Category 3: KCTCS Electives (21 hours)*

KCTCS Course	Course or Category	Credits	UK Course	Completed
TBS XXX	Digital Literacy**	0-3	TBD XXX	
FYE XXX	First-Year Experience	0-3	GEED 1--	
CS 115U	Introduction to Computer Programming	3	CS 115	
MAT 275	Calculus III	4	MA 213	
MAT 285	Calculus IV	3	MA 214	
	Subtotal Elective Courses	**10-16**		
	TOTAL Associate Degree Hours	**60-70**		

*Students should work with their KCTCS academic advisors to ensure they earn a total of 60 credit hours from KCTCS to graduate with their AS.
**It's recommended that students take the IC3 exam to bypass the Digital Literacy exam.

University of Kentucky

Major Requirements for Bachelor of Science in Chemical Engineering

UK Course	Course	Credits	KCTCS Course	Taken at KCTCS
EGR 215	Introduction to the Practice of Engineering for Transfer Students	3		
CME 200	Process Principles	3		
CME 220	Computational Tools in Chemical Engineering	3		
CME 320	Engineering Thermodynamics	3		
CME 330	Fluid Mechanics	3		
CME 415	Separation Processes	3		
CME 420	Process Modeling in CME	3		
CME 425	Heat and Mass Transfer	4		
CME 432	Chemical Engineering Laboratory I	2		
CME 006	The Engineering Profession (Junior and Senior)	0		
CME 433	Chemical Engineering Laboratory	3		
CME 455	Chemical Engineering Product and Process Design	3		
CME 456	CME Process Design II	3		
CME 462	Process Control	3		
CME 470	Professionalism, Ethics, and Safety	2		
CME 550	Chemical Reactor Design	3		
CHE 446G	Physical Chemistry for Engineers	3		
STA 381	Engineering Statistics: A conceptual apprach			
Subtotal UK Credit Hours		**73**		
Total Baccalaureate Degree Credit Hours		**133-143**		

*These courses will be selected in conjunction with a UK academic advisor.

Updated: Fall 2022

Sample Course Sequence: KCTCS Associate in Science to UK Bachelor of Science in Chemical Engineering

KCTCS Fall Semester 1	
ENG 101	3
First-Year Course	3
CHE 170/175	5
MAT 174/175	4-5
Total	**14-15**

KCTCS Spring Semester 1	
ENG 102	3
CHE 180/185	5
MAT 184/185	4-5
Heritage	3
SBS	3
Total	**18-19**

KCTCS Summer Semester 1	

KCTCS Fall Semester 2	
PHY 231	4
MAT 275	4
Oral Comm.	3
CS 115U	3
CHE 270/275	5
Total	**19**

KCTCS Spring Semester 2	
MAT 285	3
PHY 232	4
Humanities	3
SBS	3
CHE 280/285	5
Total	**18**

KCTCS Summer Semester 2	

UK Fall Semester 3	
Total	

UK Spring Semester 3	
Total	

UK Fall Semester 4	
Total	

UK Spring Semester 4	
Total	

UK Fall Semester 5	
Total	

UK Spring Semester 5	
Total	