TRANSFER DEGREE PATHWAY GUIDE

Associate in Science to UofL for Bachelor of Science in Chemical Engineering

Overview

Completion of the following curriculum will satisfy the requirements for the 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 Louisville.

Admission Requirements

Transfer students must have a minimum of 24 transferable credit hours and a minimum GPA of 2.8. Students must have a minimum grade of B- in the following courses: Calculus I (MAT 175) and College Chemistry I (CHE 170). All other grades must be have a C- minimum in order to count towards the degree requirements.

Degree Requirements

The baccalaureate degree in science is the undergraduate degree offered by the university. It is awarded to students who have completed both university-wide requirements and the requirements of the selected degree program. The following university-wide requirements apply to all baccalaureate degrees. The student must complete all Cardinal Core requirements, complete all required courses and program requirements listed in this form, have a cumulative GPA of at least a 2.25, or higher, complete 120 hours applicable to this program, and complete at least 60 hours at an accredited 4-year institution. Please visit https://catalog.louisville.edu/undergraduate/majors/bioengineering-bs/ for a list of all degree requirements.

General Transfer Requirements

Please reference the following links for information regarding admissions, scholarships, and speaking with an admission counselor.

- Application Process: http://louisville.edu/admissions/apply/transfer/admissions
- Scholarship: http://louisville.edu/admissions/apply/transfer/cost-of-attendance/kctcs
- Admissions Counselor: uofl.me/trf-appointment

All transfers students are required to meet with an academic advisor prior to registering for classes. During your advising appointment, your academic advisor will assess your transfer credit and provide a timeline to degree.

The J.B. School of Engineering has the following deadlines for their application:

Fall – March 1st
Spring – October 1st
Summer – March 1st

Associate of Science to Bachelor of Science in Chemical Engineering

Kentucky Community and Technical College System

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

KCTCS Course	Course or Category	Credits	UofL Course	Completed
ENG 101	Writing 1	3	ENGL 101	
ENG 102	Writing II	3	ENGL 102	
COM 181	Oral Communications	3	COMM 111	
TBS XXX	Social & Behavioral Science Gen Ed*	3	SBS XXX	
TBS XXX	Social & Behavioral Science Gen Ed*	3	SBS XXX	
HIS XXX	Heritage*- recommend HIS 101, 102, 108 or 109	3	HIST XXX	
PHI XXX	Arts/Humanities- recommend PHI 110, 130, 140 or 150	3	PHIL XXX	
PHY 231/241	General University Physics I & lab	5	PHYS 298/295	
CHE 170/175	General College Chemistry I & lab	5	CHEM 201/207	
MAT 175	Calculus I **	5	ENGR 101	
MAT 185	Calculus II	5	ENGR 102	
	Subtotal General Education Core Courses	**41**		

TBS XXX means to be selected by KCTCS student.
*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.
** Students who do not test into MAT 175 must complete MAT 150 **AND** MAT 155 before being able to take MAT 175. Students may also complete MAT 171 according to placement.

Category 2: KCTCS Associate in Science Requirements (6 hours)

KCTCS Course	Course or Category	Credits	UofL Course	Completed
CHE 180/185	General College Chemistry II & lab	5	CHEM 202/208/209	
MAT 275	Calculus III	4	ENGR 201	
	Subtotal AA/AS Requirement Courses	**9**		

Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	UofL Course	Completed
CIT 105	Digital Literacy or IC3 test out	0-3	Elective XXX	
FYE 105	First-Year Experience	3	GEN 100	
MAT 285	Differential Equations	3	ENGR 205	
TBS XXX	Any College Level Course(s)	1-4	TBD XXX	
	Subtotal Elective Courses	**10**		
	TOTAL Associate Degree Hours	**60-63**		

University of Louisville

Major Requirements for Bachelor of Science in Chemical Engineering:

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
CHE 205	Introduction to Chemical Engineering	3		
CHE 211	Chem. Engineering Thermodynamics I	3		
CHE 230	Computer Applications in Chem. Engr.	2		
CHE 253	Materials Science	3		
CHE 288	Chem. Engineering Co-op Ed Seminar	0		
CHE 289	Chemical Engineering Co-op I	1		
CHE 305	Material and Energy Balances	4		
CHE 312	Chemical Engineering Thermodynamics II	3		
CHE 331	Principles of Fluid Dynamics	3		
CHEM 341	Organic Chemistry I	3		
CHEM 343	Organic Chemistry Laboratory I	2		
CHE 389	Chemical Engineering Co-op II	1		
CHE 401	Safety, Health and Environment	1		
CHE 433	Principles of Heat & Mass Transfer	4		
CHE 436	Separation Operations	3		
CHE 441	Kinetics and Chemical Reactors	3		
CHE 461	Elements of Process Control	3		
CHE 471	The Strategy of Design	3		
CHE 485	Unit Operations Laboratory I	2		
CHE 486	Unit Operations Laboratory II	2		
CHE 489	Chemical Engineering Co-op III	1		
CHE 520	Modeling and Transport Phenomena	3		
CHE 572	Plant Process and Project Design	3		
ENGR 110	Engineering Methods, Tools, & Practice I	2		
ENGR 111	Engineering Methods, Tools, & Practice II	2		
ENGR 307	Numerical Methods for Engineering	2		
IE 360	Probability & Statistics for Engineers	3		
IE 370	Engineering Economic Analysis	3		
PHIL XXX	Approved Ethics Elective	3		
TBD XXX*	Advanced Science or Chemical Engineering Elective	3		
TBD XXX*	Advanced Chemistry or Chemical Engineering Elective	3		
	Subtotal UofL Credit Hours	**71**		
	Total Baccalaureate Degree Credit Hours	**123**		

*TBD XXX to be determined with the conjuncture of the Academic Advising Unit

Updated: 2/20/2020