



TRANSFER PATHWAY GUIDE 2022-2023

Associate in Science to Bachelor of Science in Electrical 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 Electrical 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 Electrical Engineering include the following or their equivalencies: CHE 105, CIS/WRD 110, CS 215, EE 211, CPE/EE 282, and PHY 231.

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 ELECTRICAL 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	
PHY 231 & 241	University Physics I (NS)	5	PHY 231 & 241	
PHY 232 & 242	University Physics II (NS)	5	PHY 232 & 242	
MAT 174/175	Calculus I (NS)	4-5	MA 113	
MAT 184/185	Calculus II (NS)	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
MAT 275	Calculus III	4		
MAT 285	Calculus IV	3		
	Subtotal AA/AS Requirement Courses	7		

Category 3: KCTCS Electives (21 hours)*

KCTCS Course	Course or Category	Credits	UK Course	Completed
	Digital Literacy**	0-3		
	First-Year Experience	0-3		
CS 115U	Introduction to Computer Programming	3	CS 115	
CS 215U	Introduction to Program Design, Abstraction and Problem Solving	4	CS 215	
CHE 170	General College Chemistry I	4	CHE 105	
	Subtotal Elective Courses	11-17		
	TOTAL Associate Degree Hours	60-65		

*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 Electrical Engineering

UK Course	Course	Credits	KCTCS Course	Taken at KCTCS
EE 223	AC Circuits	4		
EE 287	Introduction to Embedded Systems	4		
EE 415G	Electromechanics	3		
EE 421G	Signals and Systems	3		
EE 461G	Introduction to Electronics	3		
EE 468G	Introduction to Engineering Electromagnetics	4		
EE 490	ECE Capstone Design I	3		
EE 491	ECE Capstone Design II	3		
MA 214	Calculus IV	3	MA 214	
MA 320 OR STA 381	Introductory Probability OR Engineering Statistics-A Conceptual Approach	3		
EE 4XXG	Upper-Level Laboratory*	4		
TBS XXX	Engineering/Science Elective	6		
TBS XXX	Math/Statistics Elective	3		
TBS XXX	Technical Elective	6		
TBS XXX	EE Technical Elective	12		
Subtotal UK Credit Hours		73		
Total Baccalaureate Degree Credit Hours		133-140		

*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 Electrical Engineering

KCTCS Fall Semester 1	
ENG 101	3
First-Year Course	3
CHE 170	4
MAT 174/175	4-5
CS 115U	3
Total	17-18

KCTCS Spring Semester 1	
ENG 102	3
Heritage	3
MAT 184/185	4-5
PHY 231/241	5
Total	15-16

KCTCS Summer Semester 1	

KCTCS Fall Semester 2	
PHY 232/242	5
MAT 275	4
SBS	3
CS 215U	4
Total	16

KCTCS Spring Semester 2	
MAT 285	3
SBS	3
Humanities	3
Oral Comm.	3
Total	12

KCTCS Summer Semester 2	

UK Fall Semester 3	
Total	

UK Spring Semester 3	
EE	
Total	

UK Summer Semester 3	

UK Fall Semester 4	
Total	

UK Spring Semester 4	
Total	

UK Fall Semester 5	
Total	