



TRANSFER PATHWAY GUIDE 2024-2025

Associate in Science to Bachelor of Science in
Agricultural and Medical Biotechnology

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 Bachelor of Science in Agricultural and Medical Biotechnology at the University of Kentucky.

Admission Requirements

Students must meet the University admission requirements to be admitted into any major within the Martin-Gatton College of Agriculture, Food and Environment (M-G CAFE).

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 Martin-Gatton College of Agriculture, Food and Environment requires that students complete a graded, credit-bearing Academic Enrichment Experience (AEE) as specified by the degree program. The College also requires students to complete 45 hours at the 300-level or above. Special Notes:

- For pre-pharmacy students, MAT 150 and MAT 170 is the preferred math sequence.

For more information, please contact the Center for Student Success by email at Cafeadvising@uky.edu, by phone at 859-257-3468.

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 AGRICULTURAL AND MEDICAL BIOTECHNOLOGY

Kentucky Community and Technical College System

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

KCTCS Course	Course or Category	Credits	UK Course	Completed
ENG101	Writing I (WC)	3	ENG 101	
ENG102	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	CHE 105/111	
CHE180+185	General Chemistry II with Lab* (NS)	5	CHE 107/113	
MAT 150	College Algebra (QR)	3	MA 109	
MAT 170	Brief Calculus with Applications (QR)	3	MA 123	
	Subtotal General Education Core Courses	37		

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.

Category 2: KCTCS AS Requirements (6 hours)

KCTCS Course	Course or Category	Credits	UK Course	Completed
BIO 150 or 114	Principles of Biology I	3	BIO 148	
BIO 152 or 116	Principles of Biology II	3	BIO 152	
	Subtotal AA/AS Requirement Courses	6		

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	
STA 296U/STA251	Statistical Methods and Motivations	3	STA 296	
BIO226+209	Principles of Microbiology + Lab	4	BIO 208+209	
CHE 270/275	Organic Chemistry I & Lab*	5	CHE 230/231	
CHE 280/285	Organic Chemistry II & Lab*	5	CHE 232/233	
	Subtotal Elective Courses	23		
	TOTAL Associate Degree Hours	66		

*Chemistry labs must be completed fully in-person to transfer as shown.

University of Kentucky

Major Requirements for Bachelor of Science in Agricultural and Medical Biotechnology

UK Course	Course	Credits
PHY 211	General Physics (part 1)	5
PHY 213	General Physics (part 2)	5
ABT 360	Genetics	3
ABT 120	Genetics and Society	3
ABT 201	Scientific Method in Biotechnology	1
ABT 301	Writing and Presentations in the Life Sciences	2
ABT 310	Intro to Biotechnology for New Majors and Transfers	1
ABT 394	Introduction to Laboratory Practices	1
ABT 395	Independent Study in Biotechnology	3
BCH 401G	Fundamentals of Biochemistry	3
ABT 495	Experimental Methods in Biotechnology	4
ABT 460	Introduction to Molecular Genetics	3
ABT 461	Introduction to Population Genetics.	3
Specialty Support	#1 @ 300 level	3
Specialty Support	#2 @ 300 level	3
Specialty Support	#3 @ 300 level	3
Specialty Support	#4 @ 300 level	3
Specialty Support	#5 @ 300 level	3
Specialty Support	#6 @ 300 level	3
Specialty Support	#7 @ 300 level	3
300 level course		1
Subtotal UK Credit Hours		58
Total Baccalaureate Degree Credit Hours		124

Updated: Fall 2024

Sample Course Sequence: KCTCS Associate in Science to UK Bachelor of Science in Agricultural and Medical Biotechnology

KCTCS Fall Semester 1	
ENG 101	3
CHE 170+175	5
First Year Experience	3
MAT 150	3
Total	14

KCTCS Spring Semester 1	
ENG 102	3
CHE 180/185	5
MAT 170	3
BIO 114 or 150	3
Total	14

KCTCS Summer Semester 1	
Oral Comm Course	3
STA 296U/STA 251	3

KCTCS Fall Semester 2	
BIO 116 or 152	3
Heritage Course	3
Social & Behavioral Sci.	3
CHE 270/275	5
Digital Literacy	3
Total	17

KCTCS Spring Semester 2	
CHE 280/285	5
Humanities	3
BIO 226+209	4
Social & Behav. Sci	3
Total	15

KCTCS Summer Semester 2	

UK Fall Semester 3	
PHY 211	5
ABT 360	3
ABT 201	1
SS-1 @300+ Level	3
ABT 310	1
Total	14

UK Spring Semester 3	
PHY 213	5
SS-2 @ 300+ Level	3
BCH 401G	3
SS-3 @ 300+ Level	3
300+ level	2
ABT 394	1
Total	16

UK Summer Semester 3	

UK Fall Semester 4	
ABT 460	3
ABT 461	3
SS-4 @ 300+ Level	3
SS-5 @ 300+ Level	3
ABT 301	2
Total	14

UK Spring Semester 4	
ABT 395	3
ABT 495	4
SS-6 @ 300+ Level	3
SS-7 @ 300+ Level	3
Total	13

UK Summer Semester 4	