



TRANSFER PATHWAY GUIDE 2019-2020

Associate in Science to Bachelors of Science in Biology

Overview

Completion of the following curriculum will satisfy the requirements for the Associates in Science at the Kentucky Community and Technical College System and leads to the Bachelors of Science at the University of Louisville.

Admission Requirements

Admission to the BS in Biology requires completion of Biology 240, Biology 242, and Biology 244 with a grade of C or better; completion of Math 111 with a grade of C or better on the basis of either the University of Louisville mathematics placement examination or ACT/SAT score; and a minimum overall grade point average of 2.0.

Degree Requirements

The baccalaureate degree in arts 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 2.00, or higher, complete 120 hours applicable to this program, and complete at least 60 hours at an accredited 4-year institution.

General Transfer Requirements

Please reference the following links for information about applying, scholarship, 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: <https://booknow.appointment-plus.com/9qq1pbnv/>

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.

KCTCS AS to University of Louisville- BS in Biology CHECKLIST

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 I	3	ENGL 101	
ENG 102	Writing II	3	ENGL 102	
COM XXX	Oral Communication- COM 181 or COM 252	3	COMM 111 or 115	
TBS XXX	Social Behavioral Science GEN/ED	3	SBS XXX	
TBS XXX	Social Behavioral Science GEN/ED	3	SBS XXX	
HIS XXX	Heritage- HIS 101, 102, 108 or 109	3	HIST 101, 102, 211, or 212	
TBS	Any Arts & Humanities GEN/ED	3	A/H XXX	
CHE 170/175	General College Chemistry I w/ lab	5	CHEM 201 & 207	
BIO 150/151	Principles of Biology I	5	BIOL 240	
MAT 150 or MAT 171	College Algebra or Pre-Calculus	3-5	MATH 111 or MATH 112	
*MAT 175	Calculus I	5	MATH 205	
	Subtotal General Education Core Courses	37-39		

TBS XXX means to be selected by KCTCS student.

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

*MAT 175 has a pre-requisite of MAT 150 & MAT 155 or MAT 171.

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	UofL Course	Completed
BIO 152/153	Principles of Biology II w/ lab	5	BIOL 242 & 244	
CHE 180/185	General College Chemistry II w/ lab	5	CHEM 202 & 208/209	
	Subtotal AA/AS Requirement Courses	10		

Category 3: KCTCS Electives (21 hours)

KCTCS Course	Course or Category	Credits	UofL Course	Completed
CIT 105	Digital Literacy or IC3 Fast track test	0-3	Elective	
FYE 105	First-Year Experience	3	GEN 101	
CHE 270/275	Organic Chemistry I w/lab	5	CHEM 341 & 343	
CHE 280/285	Organic Chemistry II w/lab	5	CHEM 342 & 344	
TBS XXX	Foreign Language	6-8	SBS XXX	
	Subtotal Elective Courses			
	TOTAL Associate Degree Hours	60-65		

University of Louisville

Major Requirements for BS in Biology with a Molecular, Cellular, and Developmental Biology track.

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
BIOL 329	Cellular and Molecular Biology	3		
BIOL 330	Genetics and Molecular Biology	3		
BIOL 331	Genetics and Molecular Biology Lab	2		
BIOL 350	Biostatistics	3		
BIOL 357	General Microbiology	3	BIO 227/BIO 226	
BIOL 363	Principles of Ecology	3		
BIOL 409	Evolutionary Biology	3		
MATH 205	Calculus I	4	MAT 175	
PHYS 221	Fundamentals of Physics I	3	PHY 151	
PHYS 222	Fundamentals of Physics II	3	PHY 152	
PHYS 223	Fundamentals of Physics I Lab	1	PHY 161	
PHYS 224	Fundamentals of Physics II Lab	1	PHY 162	
TBD XXX	Arts & Humanities with Diversity	3	TBS XXX	
TBD XXX	Biology Elective	3-4	TBS XXX	
TBD XXX**	Biology Laboratory**	1-4	TBS XXX	
TBD XXX***	Biology MCD Electives	9-10	TBS XXX	
TBD XXX	Culminating Undergraduate Experience	4	TBS XXX	
TBD XXX	Hum/Social Science/Biology Elect (300+)	11-13	TBS XXX	
Subtotal University of Louisville Credit Hours		72		
Total Baccalaureate Degree Credit Hours		132		

****Select one of the Following Lab experiences:**

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
BIOL 358	Microbiology Laboratory	*		
BIOL 404	Undergraduate Research	*		
BIOL 405	Undergraduate Research	*		
BIOL 406	Undergraduate Research	*		
BIOL 416	Biotechnology Methods	*		
BIOL 541	Medicinal Plant Biochemistry	*		
BIOL 548	Experimental Design & Analysis	*		

*****Biology MCD Elective (choose 3):**

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
BIOL 347	Comparative Vertebrate Anatomy	*		
BIOL 359	Microbial Genetics & Pathogenesis	*		
BIOL 415	Biology of the Cell	*		
BIOL 435	Chemical Ecology	*		
BIOL 480	Introduction to Immunology	*		
BIOL 485	Microbial Physiology	*		
BIOL 511	Behavioral Endocrinology	*		

UofL Course	Course	Credits	KCTCS Course	Taken at KCTCS
BIOL 512	Endocrinology	*		
BIOL 515	Environmental Physiology	*		
BIOL 542	Gene Structure and Function	*		
BIOL 552	Evolutionary Medicine	*		
BIOL 553	Chronic Disease Biology	*		

*Course credits will be determined by University of Louisville

Updated: 6/19/2019