

TRANSFER PATHWAY GUIDE

FOR

Associate in Applied Science in Agriculture/Animal Science Track to Murray State University's Bachelor of Science in Animal and Equine Science

Overview

Completion of the following curriculum will satisfy the requirements for Associate in Applied Science in Agriculture/Animal Science Track at the Kentucky Community and Technical College System and leads to the Bachelor of Science in Animal and Equine Science at Murray State University. Students completing their AAS in Agriculture with KCTCS can complete their Animal and Equine Science degree at Murray State 100% online.

Admission Requirements

Murray State University admission requirements for domestic first-time transfer students can be found online [here](#).

Degree Requirements

At least 42 semester hours of the 120 hours required for a baccalaureate degree must be earned in courses at the 300-level or above (upper-level courses). Transfer courses at the 100- or 200-level that are direct equivalents of upper-level Murray State courses will be considered upper-level credit. Transfer courses at the 100- or 200-level that may be substituted for upper-level Murray State courses or requirements will not be considered upper-level credit.

The baccalaureate degree candidate must have a GPA of at least 2.00: (1) in all credits presented for graduation whether earned at Murray State or elsewhere (cumulative GPA); (2) in all credits completed at Murray State; and (3) in the courses for each major, minor or area.

General Transfer Requirements

Students can apply for Murray State online here: <https://www.murraystate.edu/admissions/apply.aspx>. Transfer requirements, scholarship information, and other relevant transfer information can also be found at www.murraystate.edu/admissions/transfer. Once the student has been accepted at Murray State and they receive their student ID (M#), they can apply for scholarships within our student portal, MyGate.

For specific questions concerning the transfer, students can contact the Transfer Center at (270)-809-3350 or msu.transfercenter@murraystate.edu.

A list of Murray State's General Education courses can be found here:

<https://www.murraystate.edu/academics/UniversityStudies/courses.aspx>

The general University Scholarship application is due at or before February 5th before the Fall semester entry. All students must complete the FAFSA to be eligible for scholarships.

KCTCS Animal Science AAS TO Murray State University's Bachelor of Science in Animal and Equine Science CHECKLIST

Kentucky Community and Technical College System

Category 1: KCTCS General Education Requirements (15-33 hours)

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
ENG 101	Writing I	3	ENG 105	
ENG 102	Writing II	3		
COM 181	Basic Public Speaking	3	COM 161	
Select one: MAT 110 MAT 116 MAT 126 MAT 150	Applied Mathematics Technical Mathematics Technical Algebra and Trigonometry College Algebra	3	TBD XXX TBD XXX TBD XXX MAT 140	
AGR 101	The Economics of Food and Agriculture	3	AGR 130	
TBS XXX	Heritage & Humanities Elective	3	TBD XXX	
BIO 112 & BIO 113	Intro to Biology and Intro to Biology Lab	4	BIO 101 & BIO 100	
CHE 140 & CHE 145	Introductory General Chemistry and Introductory General Chemistry Laboratory	4	CHE 105	
Subtotal - Minimum General Education Reqs for AAS		26		
<i>For full Category Certification: Students may wish to pursue full category certification at KCTCS. Please complete the additional courses listed below to complete category certification prior to transfer.</i>				
TBS XXX	Heritage & Humanities Elective	3	TBD XXX	
TBS XXX	Social & Behavioral Elective	3	TBD XXX	
TBS XXX	Social & Behavioral Elective	3	TBD XXX	
Subtotal General Education Courses		35		

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by Murray State University based on course selected.

Category 2: KCTCS AAS Requirements

Technical Core Courses

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
DLC XXX	Digital Literacy**	0-3		
AGR 125	Introduction to Fertilizers and Soils	3	AGR 345	
AGR 130	Field Applications in Agriculture	2	AGR 133	
AGR 140	Issues in Agriculture	3	AGR 199	
AGR 230	Career Development in Agriculture	3	AGR 399	
AGR 240	Introduction to Animal Science	3	AGR 100	
AGR 250	Introduction to Plants/Crop Production	3	AGR 240	
Subtotal AAS Technical Core Requirement Courses		17-20		

** Students must demonstrate computer/digital literacy skills, either through completing a course or passing a test.

Animal Science Track Courses

KCTCS Course	Course or Category	Credits	Murray State Course	Completed
AGR 180	Agricultural Internship I	2	TBD XXX	
AGR 280	Livestock Management	3	TBD XXX	
AGR 290	Animal Nutrition	3	TBD XXX	
AGR 210	Applications in Animal Technology	3	TBD XXX	
TBS XXX	Elective	3	TBD XXX	
Subtotal Animal Science Track Courses		14		

TBS XXX means to be selected by KCTCS student.

TBD XXX means to be determined by Murray State University based on course selected.

Murray State University

Major Requirements for the Bachelor of Science in Animal and Equine Science

Murray State Course	Course	Credits	KCTCS Course	Taken at KCTCS
AGR 100T*	Transitions	1		
AGR 323	Livestock Form & Function	3		
AGR 339	Computer Applications for Agriculture	3	AGR 220	
AGR 375	Animal Emergency Preparedness	3		
AGR 504	Diseases of Livestock	3		
AGR 599	Agriculture Senior Capstone	1		
At least one: AGR 403 AGR 422 AGR 506	Equine Reproduction Livestock Reproduction Reproductive Physiology	3		
	One Required Emphasis listed below	33-57		
Subtotal Murray State Credit Hours		50 - 74		
Total Baccalaureate Degree Credit Hours		114-138		

* Transition courses are waived for students who transfer 30 hours or more to Murray State University.

Complete one of the following emphasis'				
Food Animal Emphasis:		Credits	KCTCS Course	Taken at KCTCS
AGR 311	Beef Science	3		
AGR 314	Small Ruminant Science	3		
AGR 321	Poultry Science	3		
AGR 326	Swine Science	3		
AGR 327	Meat Science	3		
At least two:				
AGR 301	Livestock Judging & Evaluation	3		
AGR 305	Meat Poultry Production Evaluation	3		
AGR 320	Livestock Behavioral Analysis	3		
AGR 423	AI Techniques for Cattle	3		
AGR 444	Promotion & Entrepreneurship of Livestock and Their Products	3		
At least one:				
AGR 412	Beef Cattle Management Systems	3		
AGR 421	Advanced Nutrition	3		
AGR 424	Genetics and Animal Breeding	3		
AGR 426	Experience in Swine Production	3		
AGR 549	Weeds & Their Control	3		
Required Support Electives:				
AGR 240	Crop Science	3	AGR 250	
AGR 330	Principles of Agribusiness	3		
AGR 333	Agribusiness Records & Analysis	3	AGR 265	
AGR 345	Soil Science	3	AGR 125	
AGR 433	Farm Management	3		
At least three credits from the following:				
AGR 436	Undergraduate Research in Agriculture	3-6		
AGR 489	Cooperative Education/Internship	1-3		
AGR 496	Selected Studies in Agriculture	1-3		
AGR 533	Seminar in International Agriculture Systems	3		
Subtotal Food Animal Emphasis Credit Hours		42		

Equine Business Management Emphasis:		Credits	KCTCS Course	Taken at KCTCS
At least one:				
AGR 101	Basic Stock Seat Horsemanship	3		
AGR 111	Basic Forward Seat Horsemanship	3		
AGR 201	Intermediate Horsemanship	3		
AGR 302	Horse Science	3		
AGR 319	Equine Nutrition and Feeding	3		
AGR 330	Principles of Agribusiness Management	3		
At least one:				
AGR 309	Equine Facility Management	3		
AGR 317	Equine Health Care and Management	3		
At least one:				
AGR 304	Advanced Stock Seat	3		
AGR 306	Advanced Forward Seat	3		
AGR 405	Equine Behavior Modification	3		
AGR 414	Teaching Methods in Animal/Equine Science	3		
At least three credits from the following:				
AGR 436	Undergraduate Research in Agriculture	3-6		
AGR 489	Cooperative Education/Internship	1-3		
AGR 496	Selected Studies in Agriculture	1-3		
AGR 533	Seminar in International Agriculture Systems	3		
Required Support Courses:				
AGR 333	Agribusiness Records and Analysis	3	AGR 265	
AGR 433	Farm Management	3		
MGT 350	Fundamentals of Management	3	BAS 283	
MKT 360	Principles of Marketing	3	BAS 282	
Subtotal Equine Business Emphasis Credit Hours		36		

Equine Science Emphasis:		Credits	KCTCS Course	Taken at KCTCS
At least one:				
AGR 101	Basic Stock Seat Horsemanship	3		
AGR 111	Basic Forward Seat Horsemanship	3		
AGR 302	Horse Science	3		
AGR 303	Advanced Horse Science	3		
At least two:				
AGR 315	Equine Exercise Physiology	3		
AGR 317	Equine Health Care and Management	3		
AGR 319	Equine Nutrition and Feeding	3		
At least one:				
AGR 421	Advanced Nutrition	3		
AGR 424	Genetics and Animal Breeding	3		
At least three credits from the following:				
AGR 436	Undergraduate Research in Agriculture	3-6		
AGR 489	Cooperative Education/Internship	1-3		
AGR 496	Selected Studies in Agriculture	1-3		
AGR 533	Seminar in International Agriculture Systems	3		
Required Support Courses:				
AGR 240	Crop Science	3	AGR 250	
AGR 328	Statistics for Food and Agriculture	3		
AGR 330	Principles of Agribusiness Management	3		
AGR 345	Soil Science	3	AGR 125	
Subtotal Equine Science Emphasis Credit Hours		33		

Pre-Chiropractic Emphasis:		Credits	KCTCS Course	Taken at KCTCS
AGR 310	Applications in Animal Technology	3		
AGR 324	Veterinary Diagnostic Imaging	3		
AGR 330	Principles of Agribusiness Management	3		
At least one:				
AGR 302	Horse Science	3		
AGR 311	Beef Science	3		
AGR 325	Small Animal Science	3		
At least one:				
AGR 333	Agribusiness Records and Analysis	3	AGR 265	
AGR 433	Farm Management	3		
MGT 350	Fundamentals of Management	3	BAS 283	
At least three credits from the following:				
AGR 436	Undergraduate Research in Agriculture	3-6		
AGR 489	Cooperative Education/Internship	1-3		
AGR 496	Selected Studies in Agriculture	1-3		
AGR 533	Seminar in International Agriculture Systems	3		
At least one:				
AGR 421	Advanced Nutrition	3		
AGR 424	Genetics and Animal Breeding	3		
AGR 510	Animal Physiology	3		
At least one:				
EXS 370	Kinesiology	3		
AGR 315	Equine Exercises Physiology	3		
Required Support Courses:				
BIO 227	Human Anatomy Lecture	2	BIO 137	
BIO 228	Human Anatomy Laboratory	2		
BIO 229	Human Physiology	3	BIO 139	
BIO 230	Human Physiology Laboratory	1		
CHE 202	General Chemistry and Qualitative Analysis	5	CHE 180	
PHY 130	General Physics I	3	PHY 151 & PHY 201	
PHY 131	General Physics I Laboratory	1	PHY 161 & PHY 202	
Suggested Electives to be Completed:				
BIO 300	Introductory Microbiology	4	BIO 225, 226, 227, & BSL 212	
CHE 310	Organic Chemistry I	3	CHE 270	
CHE 311	Organic Chemistry I Laboratory	2		
CHE 330	Basic Biochemistry	3		
PHY 132	General Physics II	3	PHY 152 & PHY 203	
PHY 133	General Physics II Laboratory	1	PHY 162 & PHY 204	
Subtotal Pre-Chiropractic Emphasis Credit Hours		57		

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