



January 12, 2016

Dr. Steve Neal
Assistant Dean for Academic Affairs
100E Agricultural Administration Building
2120 Fyffe Rd
Columbus, OH 43210

Dear Dr. Neal,

Enclosed please find the proposed curriculum plan for the Associate of Science in Animal Sciences (ANIMSCI-AS), with Beef (BEF), Dairy (DRY), Horse (HRS), Small Ruminant (SMR) and Swine (SWN) specializations, submitted for consideration by the FAES Academic Affairs Committee. The modifications of the current curriculum plan respond to the Ohio Department of Higher Education (ODHE) revised requirements for this degree program as indicated in the revised ODHE Guidelines and Procedures for Academic Program Review document, and are in alignment with the approved curriculum plan template for the Ohio State ATI Associate of Science degree program. The changes address the reduction in credit hours and alignment with the general education curriculum for this degree program. In addition, the proposed curriculum plan provides students with a course of study that will prepare them to transition smoothly to the corresponding four-year degree program(s) on the Columbus campus of The Ohio State University.

In conjunction with the Baccalaureate Animal Sciences program in Columbus, this program is being changed to take advantage of specific strengths found at the Ohio State ATI and Columbus campuses. As part of this program revision, the Associate of Science Livestock Science (LVSCI-AS) is being renamed to Animal Sciences (ANIMSCI-AS), two specializations (DRY and HRS) are being added to this program, and the Associate of Science Dairy Science (DAIRYSC-AS) and the Associate of Science Horse Science (HORSESC-AS) are being withdrawn. With the renaming of the degree and combination of the programs into one major, we anticipate smoother transition to the corresponding Animal Sciences BS degree program:

Beef specialization:

- AGRCOMM 2367 Agricultural Issues in Contemporary Society was removed (-3) and AGRCOMM 3130 Oral Expression in Agriculture was added (+3)
- One ARTS/HUM course was removed (-3)
- ANMLTEC 2200T Intro to Animal Sciences was moved from the transferable course category to the additional general education category
- ANMLTEC 2510T Beef and Small Ruminant Operations Management was removed (-1)
- ANMLTEC 2520T Beef and Small Ruminant Reproductive Management was removed (-1)
- ANMLTEC 2510.02T Food Animal Resource Management I – Beef was added (+1)
- ANMLTEC 2582.02T Food Animal Resource Management II – Beef was added (+1)
- ANMLTEC 3402T Beef Production and Management changed from 3 to 4 credits (+1)
- CRPSOIL 2412T Forage Crops was added (+3)
- Electives were removed (-5)
- Total credit hours were changed from 69 to 65
- Concurrence for the specialization has been received from the Department of Animal Sciences

Dairy specialization (changes from DAIRYSC-AS):

- AGRCOMM 2367 Agricultural Issues in Contemporary Society was removed (-3) and AGRCOMM 3130 Oral Expression in Agriculture was added (+3)
- One ARTS/HUM course was removed (-3)
- ANMLTEC 2200T Intro to Animal Sciences was added to the additional general education category (+3)
- Electives were removed (-6)
- ANMLTEC 2787.01T, .02T and .03T were removed (-3) and ANMLTEC 2787T Applied Dairy Herd Practices & Management was added (+4)
- Total credit hours were changed from 70 to 65
- Concurrence for the specialization has been received from the Department of Animal Sciences

Horse specialization (changes from HORSESC-AS):

- One ARTS/HUM course was removed (-3)
- ANMLTEC 2200T Intro to Animal Sciences was moved from an elective option to a required course in the additional general education category (+3)
- ANMLTEC 3101T Equine Marketing and Facility Management changed from 2 to 4 credits (+2)
- ANMLTEC 3111T Equine Sales Preparation and Marketing was withdrawn (-3)
- ANMLTEC 3201T Horse Judging and Evaluation was moved from required to an elective option (- 2)
- The Natural Sciences category was changed to give the option of CHEM 1110 or CHEM 1210 (no credit hour change)
- Electives were changed from 6 credits to 5 credits (-1)
- Total credit hours were changed from 69 to 65
- Concurrence for the specialization has been received from the Department of Animal Sciences

Small Ruminant specialization:

- AGRCOMM 2367 Agricultural Issues in Contemporary Society was removed (-3) and AGRCOMM 3130 Oral Expression in Agriculture was added (+3)
- One ARTS/HUM course was removed (-3)
- ANMLTEC 2200T Intro to Animal Sciences was moved from the transferable course category to the additional general education category
- ANMLTEC 2510T Beef and Small Ruminant Operations Management was removed (-1)
- ANMLTEC 2520T Beef and Small Ruminant Reproductive Management was removed (-1)
- ANMLTEC 2510.04T Food Animal Resource Management I – Small Ruminants was added (+1)
- ANMLTEC 2582.04T Food Animal Resource Management II – Small Ruminants was added (+1)
- ANMLTEC 3404T Small Ruminant Production and Management changed from 3 to 4 credits (+1)
- CRPSOIL 2412T Forage Crops was added (+3)
- Electives were removed (-5)
- Total credit hours were changed from 69 to 65
- Concurrence for the specialization has been received from the Department of Animal Sciences

Swine specialization:

- AGRCOMM 2367 Agricultural Issues in Contemporary Society was removed (-3) and AGRCOMM 3130 Oral Expression in Agriculture was added (+3)
- One ARTS/HUM course was removed (-3)

- ANMLTEC 2200T Intro to Animal Sciences was moved from the transferable course category to the additional general education category
- ANMLTEC 2513T Swine Management Methods I was removed (-2)
- ANMLTEC 2510.03T Food Animal Resource Management I – Swine was added (+1)
- ANMLTEC 2582.03T Food Animal Resource Management II – Swine was added (+1)
- ANMLTEC 2613T Swine Production and Management II was renumbered to 3403T and changed from 3 to 4 credits (+1)
- Electives were changed from 5 to 3 credits (-2)
- Total credit hours were changed from 69 to 65
- Concurrence for the specialization has been received from the Department of Animal Sciences

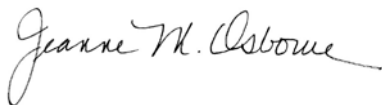
The proposed curriculum plan was developed by the Program Coordinator for the major. The courses that are included in the current and proposed curriculum plan were selected in consultation with other faculty involved in the program as well as stakeholder advisory committees and/or individuals. The proposed curriculum plan and course sequence were approved by the Agriculture and Engineering Technologies Division at Ohio State ATI and the Ohio State ATI Academic Affairs committee. Ohio State ATI is committed to protecting the academic progress of students. In order that this proposed program change will not disrupt progress toward their degree, course substitutions and manual management of the degree audits will occur as needed for students enrolled in this degree program during the transition. When appropriate, coursework completed by students under the current degree program will be utilized for completion of the proposed degree program.

Enclosed please find the following documents:

- Current curriculum plan and course sequence for the Livestock Science, Dairy Science and Horse Science degree programs
- Proposed curriculum plans and course sequences for the Animal Sciences degree program with Beef, Dairy, Horse, Small Ruminant and Swine specializations
- Concurrence for curriculum plans/course sequences

Please let me know if there are questions or additional information or documentation is required to accompany this submission. We look forward to hearing from the FAES Academic Affairs Committee regarding next steps in the approval process.

Sincerely,



Jeanne M. Osborne
Assistant Director, Academic Affairs

**ASSOCIATE OF SCIENCE DEGREE
DAIRY SCIENCE CURRICULUM PLAN**

Ohio State ATI – AS Degree		Major:	Dairy Science	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
English Composition and Literature	6 cr	ENGLISH 1110.01 AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	First-Year English Composition Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3 3
Humanities	9 cr	HISTORY 1152 COMPSTD 2301 MUSIC 2250	American Civilization since 1877 Introduction to World Literature Music Cultures of the World	3 3 3
Social and Behavioral Sciences	6 cr	AEDECON 2001 RURLSOC 1500	Principles of Food & Resource Economics Introduction to Rural Sociology	3 3
Natural Science (physical and biological) and/or Mathematics	10-13 cr	BIOLOGY 1113 CHEM 1110 or CHEM 1210 MATH 1148	Bio Sci: Energy Transfer and Development Elementary Chemistry General Chemistry 1 College Algebra	4 5 4
Open Option or Cultures and Ideas	3 cr	ANMLTEC 3140T	Animal Anatomy & Physiology	4
College/Career Orientation	1 cr	GENSTDS 1201T ANMLTEC 1201.07T	College Orientation Exploring Dairy Careers and Industry	0.5 0.5
Minimum General Total	36 cr			39
Minimum of 24 cr. of transferable courses applicable to OSU bachelor's degree. Developed in consultation with affiliated department/unit where appropriate.	24 cr	ANMLTEC 2787.01T ANMLTEC 2787.02T ANMLTEC 2787.03T ANMLTEC 3130T ANMLTEC 3137T ANMLTEC 3157T ANMLTEC 3167T ANMLTEC 3177T ANMLTEC 3191.07T ANMLTEC 3207T ANMLTEC 3407T ELECTIVES	Applied Dairy Herd Practices and Management – Milking Applied Dairy Herd Practices and Management – Health and Reproduction Applied Dairy Herd Practices and Management – Nutrition and Feeding Principles of Animal Nutrition Dairy Cattle Feeding Management Dairy Cattle Genetic Improvement Dairy Cattle Milking and Reproductive Management Dairy Cattle Health Management Dairy Industry Internship Dairy Cattle Evaluation and Herd Records Dairy Facilities, Environment, and Equipment	1 1 1 2 2 3 4 4 2 2 3
Other Course Total	24 min cr			31
Degree Totals	60 cr min– 70 cr max			70

**DAIRYSC-AS
Catalog Year
2014-2015**

**Dairy Science
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.07T	Exploring Dairy Careers and Industry	.5
ANMLTEC 3167T	Dairy Cattle Milking and Reproductive Management	4
ANMLTEC 3207T	Dairy Cattle Evaluation and Herd Records	2
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	4
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
<u>1st Year – Spring Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3177T	Dairy Cattle Health Management	4
ELECTIVES	6 credits required from approved list with advisor approval	3
MUSIC 2250	Music Cultures of the World	<u>3</u>
		17
<u>Summer Term</u>		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u>
		2
<u>2nd Year – Autumn Semester</u>		
*+ ANMLTEC 2787.0X	Applied Dairy Herd Practices & Management (3 cr needed)	1-2
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3137T	Dairy Cattle Feeding Management	2
ANMLTEC 3407T	Dairy Cattle Facilities, Environment and Equipment	3
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
CHEM 1110 or 1210	Elementary Chemistry <u>or</u> General Chemistry 1	<u>5</u>
		17-18
<u>2nd Year – Spring Semester</u>		
AGRCOMM 2367		3
or ANIMSCI 2367	Agricultural Issues in Contemporary Society	
or ENR 2367	or Animals in Society	
	or Communicating Environmental and Natural Resources	
*+ ANMLTEC 2787.0X	Information	1-2
	Applied Dairy Herd Practices & Management (3 cr needed)	
ANMLTEC 3157T	Dairy Cattle Genetic Improvement	3
COMPSTD 2301	Introduction to World Literature	3
ELECTIVES	6 credits required from approved list with advisor approval	3
HISTORY 1152	American Civilization since 1877	<u>3</u>
		16-17
	Total Credits	70

+ Three credits needed:

- + Anmltec 2787.01T Applied Dairy Herd Practices and Management – Milking – 1 cr
- + Anmltec 2787.02T Applied Dairy Herd Practices and Management – Health and Reproduction – 1 cr
- + Anmltec 2787.03T Applied Dairy Herd Practices and Management – Nutrition and Feeding – 1 cr

*A grade of C or better required to meet graduation requirements.

DAIRYSC-AS
Catalog Year
2014-2015

Dairy Science
Associate of Science

Elective options – 6 credits required:

AEDECON 2105	Managerial Records and Analysis	3
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 2100T	Appreciation of Companion and Production Animals	3
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ANMLTEC 3887T	Integrated Dairy Farm Business Management	4
BIOLOGY 1114	Bio Sci: Form, Function, Diversity, and Ecology	4
CHEM 1210●●	General Chemistry 1	5
CHEM 1220	General Chemistry 2	5
CHEM 2510	Organic Chemistry I	4
CHEM 2520	Organic Chemistry II	4
COMLDR 3537	Data Analysis in the Applied Sciences	3
CRPSOIL 2228T	Manure Management	3
CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Laboratory	1
CRPSOIL 2412T	Forage Crops	3
MICRBIO 4000	Basic and Practical Microbiology	4
PHYSICS 1200	Mechanics, Kinematics, Fluids, Waves	5
PHYSICS 1201	E&M, Optics, Modern Physics	5

●● if not taken as a required GEC

**ASSOCIATE OF SCIENCE DEGREE
HORSE SCIENCE CURRICULUM PLAN**

Ohio State ATI – AS Degree		Major:	Horse Science	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
English Composition and Literature	6 cr	ENGLISH 1110.01 AGRCOMM 2367	First-Year English Composition Agricultural Issues in Contemporary Society	3 3
Humanities	9 cr	HISTORY 1152 COMPSTD 2301 MUSIC 2250	American Civilization since 1877 Introduction to World Literature Music Cultures of the World	3 3 3
Social and Behavioral Sciences	6 cr	RURLSOC 1500 AEDECON 2001	Introduction to Rural Sociology Principles of Food & Resource Economics	3 3
Natural Science (physical and biological) and/or Mathematics	10-13 cr	BIOLOGY 1113 CHEM 1110 MATH 1148	Bio Sci: Energy Transfer and Development Elementary Chemistry College Algebra	4 5 4
Open Option or Cultures and Ideas	3 cr	ANMLTEC 3140T	Animal Anatomy and Physiology	4
College/Career Orientation	1 cr	GENSTDS 1201T ANMLTEC 1201.01T	College Orientation Exploring Equine Careers and Industry	0.5 0.5
Minimum General Total	36 cr			39
Minimum of 24 cr. of transferable courses applicable to OSU bachelor's degree. Developed in consultation with affiliated department/unit where appropriate.	24 cr	ANMLTEC 2189.01T ANMLTEC 2201T ANMLTEC 3101T ANMLTEC 3111T ANMLTEC 3130T ANMLTEC 3131T ANMLTEC 3151T ANMLTEC 3161T ANMLTEC 3171T ANMLTEC 3201T ELECTIVE OPTONS: ANMLTEC 2200T and ANMLTEC 2300T ANMLTEC 2801T ANMLTEC 2811T ANMLTEC 3150T ANMLTEC 3191.01T MICRBIO 4000	Horse Practicum Introduction to Horse Science Equine Facility Maintenance and Management Equine Sales Preparation and Marketing Principles of Animal Nutrition Equine Feeding and Nutrition Horse Breeding and Selection Applied Equine Reproductive Management Horse Health and Disease Horse Judging and Evaluation Minimum of 6 credits from: Intro. to Animal Sciences (3) Intro. to Animal Sciences Lab ((1) Horsemanship & Equitation (3) Schooling and Training the Riding Horse (3) Livestock Genetic Improvement (3) Equine Industry Internship Experience (3) Basic & Practical Microbiology (4)	2 3 2 3 2 2 3 2 3 2 6 3 3 3 4
Other Course Total	24 min cr			30
Degree Totals	60 cr min– 70 cr max			69

HORSESC-AS
Catalog Year
2014-2015

Horse Science
Associate of Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.01T	Exploring Equine Careers and Industry	.5
*ANMLTEC 2189.01T	Horse Practicum (2 credits at 1 credit each)	1
ANMLTEC 2201T	Introduction to Horse Science	3
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
HISTORY 1152	American Civilization since 1877	3
MATH 1148	College Algebra	4
RURLSOC 1500 or TEC ELECTIVE	Introduction to Rural Sociology or Technical Elective (6 credits required)	<u>3</u>
		18
<u>1st Year – Spring Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3151T or TEC ELECTIVE	Horse Breeding and Selection or Technical Elective (6 credits required)	3
ANMLTEC 3201T	Horse Judging Evaluation	2
CHEM 1110	Elementary Chemistry	<u>5</u>
		17
<u>2nd Year – Autumn Semester</u>		
AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
ANMLTEC 3101T	Equine Facility Maintenance and Management	2
ANMLTEC 3111T	Equine Sales Preparation and Marketing	3
ANMLTEC 3130T	Principles of Animal Nutrition	2
MUSIC 2250	Music Cultures of the World	3
RURLSOC 1500 or TEC ELECTIVE	Introduction to Rural Sociology or Technical Elective (6 credits required)	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2189.01T	Horse Practicum (2 credits at 1 credit each)	1
ANMLTEC 3131T	Equine Feeding and Nutrition	2
ANMLTEC 3151T or TEC ELECTIVE	Horse Breeding and Selection or Technical Elective (6 credits required)	3
ANMLTEC 3161T	Applied Equine Reproductive Management	2
ANMLTEC 3171T	Horse Health and Disease	3
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
COMPSTD 2301	Introduction to World Literature	<u>3</u>
		18
	Total Credits	69

*A grade of C or better required to meet graduation requirements.

HORSESC-AS
Catalog Year
2014-2015

Horse Science
Associate of Science

Elective options – 6 credits required:

ANMLTEC 2200T	Introduction to Animal Sciences	3
and 2300T	and Introduction to Animal Sciences Laboratory	1
ANMLTEC 2801T	Horsemanship and Equitation	3
ANMLTEC 2811T	Schooling and Training the Riding Horse	3
ANMLTEC 3150T	Livestock Genetic Improvement	3
*ANMLTEC 3191.01T	Equine Industry Internship Experience	1-3
MICRBIO 4000	Basic and Practical Microbiology	4

*A grade of C or better required to meet graduation requirements.

**ASSOCIATE OF SCIENCE DEGREE
LIVESTOCK SCIENCE CURRICULUM PLAN
Beef Specialization**

Ohio State ATI – AS Degree		Major:	Beef Specialization	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
English Composition and Literature	6 cr	ENGLISH 1110.01 AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	First-Year English Composition Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3 3
Humanities	9 cr	HISTORY 1152 COMPSTD 2301 MUSIC 2250	American Civilization since 1877 Introduction to World Literature Music Cultures of the World	3 3 3
Social and Behavioral Sciences	6 cr	RURLSOC 1500 AEDECAN 2001	Introduction to Rural Sociology Principles of Food & Resource Economics	3 3
Natural Science (physical and biological) and/or Mathematics	10-13 cr	BIOLOGY 1113 CHEM 1110 or CHEM 1210 MATH 1148	Bio Sci: Energy Transfer and Development Elementary Chemistry or General Chemistry 1 College Algebra	4 5 4
Open Option or Cultures and Ideas	3 cr	ANMLTEC 3140T	Animal Anatomy and Physiology	4
College/Career Orientation	1 cr	GENSTDS 1201T ANMLTEC 1201.02T	College Orientation Exploring Livestock Careers and Industry	0.5 0.5
Minimum General Total	36 cr			39
Minimum of 24 cr. of transferable courses applicable to OSU bachelor's degree. Developed in consultation with affiliated department/unit where appropriate.	24 cr	ANMLTEC 2200T ANMLTEC 2202T ANMLTEC 2300T ANMLTEC 2510T ANMLTEC 2520T ANMLTEC 3130T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3402T CRPSOIL 2228T ELECTIVES	Introduction to Animal Sciences Introduction to Beef and Small Ruminant Production Introduction to Animal Sciences Lab Beef and Small Ruminant Operations Management Beef and Small Ruminant Reproductive Management Principles of Animal Nutrition Principles in Ruminant Nutrition Livestock Genetic Improvement Principles of Livestock Health Beef Production & Management Manure Management (5 credits from approved list)	3 3 1 1 1 2 2 3 3 3 3 3
Other Course Total	24 min cr			30
Degree Totals	60 cr min– 70 cr max			69

LVSCI-AS BEF
Catalog Year
2014-2015

**Livestock Science
Beef Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2202T	Introduction to Beef and Small Ruminant Production	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	4
MUSIC 2250	Music Cultures of the World	<u>3</u>
		18
<u>1st Year – Spring Semester</u>		
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 or 1210	Elementary Chemistry <u>or</u> General Chemistry I	5
HISTORY 1152	American Civilization since 1877	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2510T	Beef and Small Ruminant Operations Management	1
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
CRPSOIL 2228T	Manure Management	3
COMPSTD 2301	Introduction to World Literature	3
ELECTIVE	From approved list (5 total credits required)	<u>3</u>
		17
<u>2nd Year – Spring Semester</u>		
AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3
* ANMLTEC 2520T	Beef and Small Ruminant Reproductive Management	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3402T	Beef Production and Management	3
ELECTIVE	From approved list (5 total credits required)	2
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
	Total Credits	69

* A grade of C or better required to meet graduation requirements.

LVSCI-AS BEF
 Catalog Year
 2014-2015

**Livestock Science
 Beef Specialization
 Associate of Science**

Elective options – 5 credits required:

ANMLTEC 2100T	Appreciation of Companion and Production Animals	3
ANMLTEC 2400T	Sustainable Animal Systems and Marketing	3
*ANMLTEC 3191.02T	Beef Industry Internship	2-3
ANMLTEC 3200T	Livestock Selection and Evaluation	2
BIOLOGY 1114	Bio Sci: Form, Function, Diversity, and Ecology	4
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3

*A grade of C or better required to meet graduation requirements.

**ASSOCIATE OF SCIENCE DEGREE
LIVESTOCK SCIENCE CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI – AS Degree		Major:	Small Ruminant Specialization	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
English Composition and Literature	6 cr	ENGLISH 1110.01 AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	First-Year English Composition Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3 3
Humanities	9 cr	HISTORY 1152 COMPSTD 2301 MUSIC 2250	American Civilization since 1877 Introduction to World Literature Music Cultures of the World	3 3 3
Social and Behavioral Sciences	6 cr	RURLSOC 1500 AEDECN 2001	Introduction to Rural Sociology Principles of Food & Resource Economics	3 3
Natural Science (physical and biological) and/or Mathematics	10-13 cr	BIOLOGY 1113 CHEM 1110 or CHEM 1210 MATH 1148	Bio Sci: Energy Transfer and Development Elementary Chemistry or General Chemistry 1 College Algebra	4 5 4
Open Option or Cultures and Ideas	3 cr	ANMLTEC 3140T	Animal Anatomy and Physiology	4
College/Career Orientation	1 cr	GENSTDS 1201T ANMLTEC 1201.02T	College Orientation Exploring Livestock Careers and Industry	0.5 0.5
Minimum General Total	36 cr			39
Minimum of 24 cr. of transferable courses applicable to OSU bachelor's degree. Developed in consultation with affiliated department/unit where appropriate.	24 cr	ANMLTEC 2200T ANMLTEC 2202T ANMLTEC 2300T ANMLTEC 2510T ANMLTEC 2520T ANMLTEC 3130T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3404T CRPSOIL 2228T ELECTIVES	Introduction to Animal Sciences Introduction to Beef and Small Ruminant Production Introduction to Animal Sciences Lab Beef and Small Ruminant Operations Management Beef and Small Ruminant Reproductive Management Principles of Animal Nutrition Principles in Ruminant Nutrition Livestock Genetic Improvement Principles of Livestock Health Small Ruminant Production and Management Manure Management (5 credits from approved list)	3 3 1 1 1 2 2 3 3 3 3 3
Other Course Total	24 min cr			30
Degree Totals	60 cr min– 70 cr max			69

LVSCI-AS SMR
Catalog Year
2014-2015

**Livestock Science
Small Ruminant Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2202T	Introduction to Beef and Small Ruminant Production	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	4
MUSIC 2250	Music Cultures of the World	<u>3</u>
		18
<u>1st Year – Spring Semester</u>		
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 or 1210	Elementary Chemistry <u>or</u> General Chemistry I	5
HISTORY 1152	American Civilization since 1877	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2510T	Beef and Small Ruminant Operations Management	1
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
CRPSOIL 2228T	Manure Management	3
COMPSTD 2301	Introduction to World Literature	3
ELECTIVE	From approved list (5 total credits required)	<u>3</u>
		17
<u>2nd Year – Spring Semester</u>		
AGRCOMM 2367 <u>or</u> ANIMSCI 2367 <u>or</u> ENR 2367	Agricultural Issues in Contemporary Society <u>or</u> Animals in Society <u>or</u> Communicating Environmental and Natural Resources Information	3
* ANMLTEC 2520T	Beef and Small Ruminant Reproductive Management	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3404T	Small Ruminant Production and Management	3
ELECTIVE	From approved list (5 total credits required)	2
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
	Total Credits	69

LVSCI-AS SMR
Catalog Year
2014-2015

**Livestock Science
Small Ruminant Specialization
Associate of Science**

Elective options – 5 credits required:

ANMLTEC 2100T	Appreciation of Companion and Production Animals	3
ANMLTEC 2400T	Sustainable Animal Systems and Marketing	3
*ANMLTEC 3191.04T	Small Ruminant Industry Internship	2-3
ANMLTEC 3200T	Livestock Selection and Evaluation	2
BIOLOGY 1114	Bio Sci: Form, Function, Diversity, and Ecology	4
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3

*A grade of C or better required to meet graduation requirements.

**ASSOCIATE OF SCIENCE DEGREE
LIVESTOCK SCIENCE CURRICULUM PLAN
Swine Specialization**

Ohio State ATI – AS Degree		Major:	Swine Specialization	
Subject	Sem Crs	Course Dept. & Number	Course Title	Crs
English Composition and Literature	6 cr	ENGLISH 1110.01 AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	First-Year English Composition Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3 3
Humanities	9 cr	HISTORY 1152 COMPSTD 2301 MUSIC 2250	American Civilization since 1877 Introduction to World Literature Music Cultures of the World	3 3 3
Social and Behavioral Sciences	6 cr	RURLSOC 1500 AEDECN 2001	Introduction to Rural Sociology Principles of Food & Resource Economics	3 3
Natural Science (physical and biological) and/or Mathematics	10-13 cr	BIOLOGY 1113 CHEM 1110 or CHEM 1210 MATH 1148	Bio Sci: Energy Transfer and Development Elementary Chemistry or General Chemistry 1 College Algebra	4 5 4
Open Option or Cultures and Ideas	3 cr	ANMLTEC 3140T	Animal Anatomy and Physiology	4
College/Career Orientation	1 cr	GENSTDS 1201T ANMLTEC 1201.02T	College Orientation Exploring Livestock Careers and Industry	0.5 0.5
Minimum General Total	36 cr			39
Minimum of 24 cr. of transferable courses applicable to OSU bachelor's degree. Developed in consultation with affiliated department/unit where appropriate.	24 cr	ANMLTEC 2200T ANMLTEC 2300T ANMLTEC 2513T ANMLTEC 2603T ANMLTEC 2613T ANMLTEC 3130T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3170T CRPSOIL 2228T ELECTIVES	Introduction to Animal Sciences Introduction to Animal Sciences Lab Swine Management Methods I Swine Production and Management I Swine Production and Management II Principles of Animal Nutrition Principles of Swine Nutrition Livestock Genetic Improvement Principles of Livestock Health Manure Management (5 credits from approved list)	3 1 2 3 3 2 2 3 3 3 3 5
Other Course Total	24 min cr			30
Degree Totals	60 cr min– 70 cr max			69

LVSCI-AS SWN
Catalog Year
2014-2015

Livestock Science
Swine Specialization
Associate of Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ANMLTEC 2603T	Swine Production and Management I	3
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	4
MUSIC 2250	Music Cultures of the World	<u>3</u>
		18
<u>1st Year – Spring Semester</u>		
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 or 1210	Elementary Chemistry <u>or</u> General Chemistry I	5
HISTORY 1152	American Civilization since 1877	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2513T	Swine Management Methods I	1
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
CRPSOIL 2228T	Manure Management	3
COMPSTD 2301	Introduction to World Literature	3
ELECTIVE	From approved list (5 total credits required)	<u>3</u>
		17
<u>2nd Year – Spring Semester</u>		
AGRCOMM 2367 or ANIMSCI 2367 or ENR 2367	Agricultural Issues in Contemporary Society or Animals in Society or Communicating Environmental and Natural Resources Information	3
* ANMLTEC 2513T	Swine Management Methods I	1
ANMLTEC 2613T	Swine Production and Management II	3
ANMLTEC 3133T	Principles of Swine Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ELECTIVE	From approved list (5 total credits required)	2
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
	Total Credits	69

* A grade of C or better required to meet graduation requirements.

LVSCI-AS SWN
Catalog Year
2014-2015

**Livestock Science
Swine Specialization
Associate of Science**

Elective options – 5 credits required:

ANMLTEC 2100T	Appreciation of Companion and Production Animals	3
ANMLTEC 2400T	Sustainable Animal Systems and Marketing	3
*ANMLTEC 3191.03T	Swine Industry Internship	2-3
ANMLTEC 3200T	Livestock Selection and Evaluation	2
BIOLOGY 1114	Bio Sci: Form, Function, Diversity, and Ecology	4
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3

*A grade of C or better required to meet graduation requirements.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Beef Specialization**

Ohio State ATI		Major: Beef Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2202T	3
		ANMLTEC 2300T	1
		ANMLTEC 2510.02T	1
		ANMLTEC 2582.02T	1
		ANMLTEC 3130T	2
		ANMLTEC 3132T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3402T	4
		CRPSOIL 2228T	3
		CRPSOIL 2412T	3
	Total Transferable and Major Courses	26	
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Beef Specialization**

Ohio State ATI		Major: Beef Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Additional OTM course(s) (from 5 GE categories above)		ANMLTEC 3140T	4
or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree		ANMLTEC 2202T	3
		ANMLTEC 2300T	1
		ANMLTEC 2510.02T	1
Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2582.02T	1
		ANMLTEC 3130T	2
		ANMLTEC 3132T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3402T	4
		CRPSOIL 2228T	3
		CRPSOIL 2412T	3
		Total Transferable and Major Courses	26
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ANIMSCI-AS BEF
Catalog Year
2016-2017**

**ANIMAL SCIENCES
Beef Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2202T	Introduction to Beef and Small Ruminant Production	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	<u>4</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 <u>or</u> 1210**	Elementary Chemistry <u>or</u> General Chemistry I	5
CRPSOIL 2412T	Forage Crops	3
MUSIC 2250 <u>or</u>	Music Cultures of the World	
HISTORY 1152	<u>or</u> American Civilization Since 1877	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2510.02T	Food Animal Resource Management I - Beef	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
COMPSTD 2301 <u>or</u>	Introduction to World Literature	
RELSTDS 2370	<u>or</u> Introduction to Comparative Religion	3
CRPSOIL 2228T	Manure Management	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.02T	Food Animal Resource Management II - Beef	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3402T	Beef Production and Management	4
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
Total Credits		65

* A grade of C or better is required to meet graduation requirements.

**Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Dairy Specialization**

Ohio State ATI		Major: Dairy Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 OR 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.07T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 2200T	3
		ANMLTEC 3140T	4
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2787T (2 credits for 2 semesters)	4
		ANMLTEC 3130T	2
		ANMLTEC 3137T	2
		ANMLTEC 3157T	3
		ANMLTEC 3167T	4
		ANMLTEC 3177T	4
		ANMLTEC 3191.07T	2
		ANMLTEC 3207T	2
		ANMLTEC 3407T	3
	Total Transferable and Major Courses	26	
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Dairy Specialization**

Ohio State ATI		Major: Dairy Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 OR 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.07T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 2200T	3
		ANMLTEC 3140T	4
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2787T (2 credits for 2 semesters)	4
		ANMLTEC 3130T	2
		ANMLTEC 3137T	2
		ANMLTEC 3157T	3
		ANMLTEC 3167T	4
		ANMLTEC 3177T	4
		ANMLTEC 3191.07T	2
		ANMLTEC 3207T	2
		ANMLTEC 3407T	3
	Total Transferable and Major Courses	26	
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ANIMSCI-AS DRY
Catalog Year
2016-2017**

**Animal Sciences
Dairy Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.07T	Exploring Dairy Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 3167T	Dairy Cattle Milking and Reproductive Management	4
ANMLTEC 3207T	Dairy Cattle Evaluation and Herd Records	2
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	<u>4</u>
		17
<u>1st Year – Spring Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
ANMLTEC 3177T	Dairy Cattle Health Management	4
CHEM 1110 <u>or</u> 1210 **	Elementary Chemistry <u>or</u> General Chemistry 1	5
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		15
<u>Summer Term</u>		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u>
		2
<u>2nd Year – Autumn Semester</u>		
*ANMLTEC 2787T	Applied Dairy Herd Practices & Management	2
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3137T	Dairy Cattle Feeding Management	2
ANMLTEC 3407T	Dairy Cattle Facilities, Environment and Equipment	3
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
MUSIC 2250 <u>or</u>	Music Cultures of the World	
HISTORY 1152	<u>or</u> American Civilization Since 1877	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 3140T	Animal Anatomy and Physiology	4
*ANMLTEC 2787T	Applied Dairy Herd Practices & Management	2
ANMLTEC 3157T	Dairy Cattle Genetic Improvement	3
COMPSTD 2301 <u>or</u>	Introduction to World Literature	
RELSTDS 2370	<u>or</u> Introduction to Comparative Religion	<u>3</u>
		15
	Total Credits	65

*A grade of C or better required to meet graduation requirements.

**Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Horse Specialization**

Ohio State ATI		Major: Horse Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113 CHEM 1110 or 1210	4 5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.01T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2189.01T (2 courses @ 1 cr./each)	2
		ANMLTEC 2201T	3
		ANMLTEC 3101T	4
		ANMLTEC 3130T	2
		ANMLTEC 3131T	2
		ANMLTEC 3151T	3
		ANMLTEC 3161T	2
		ANMLTEC 3171T	3
		Technical Electives (5 credits):	
		ANMLTEC 2300T	1
		ANMLTEC 2801T	3
		ANMLTEC 2811T	3
		ANMLTEC 3150T	3
		ANMLTEC 3191.01T	2
		ANMLTEC 3201T	2
	MICRBIO 4000	4	
	Total Transferable and Major Courses	26	
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Horse Specialization**

Ohio State ATI		Major: Horse Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.01T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2189.01T (2 courses @ 1 cr./each)	2
		ANMLTEC 2201T	3
		ANMLTEC 3101T	4
		ANMLTEC 3130T	2
		ANMLTEC 3131T	2
		ANMLTEC 3151T	3
		ANMLTEC 3161T	2
		ANMLTEC 3171T	3
		<u>Technical Electives (5 credits):</u>	
		ANMLTEC 2300T	1
		ANMLTEC 2801T	3
		ANMLTEC 2811T	3
		ANMLTEC 3150T	3
		ANMLTEC 3191.01T	2
ANMLTEC 3201T	2		
MICRBIO 4000	4		
		Total Transferable and Major Courses	26
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ANIMSCI-AS HRS
Catalog Year
2016-2017**

**Animal Sciences
Horse Specialization
Associate of Science**

Course	Title	Credits
<u>1st Year-Autumn Semester</u>		
ANMLTEC 1201.01T	Exploring Equine Careers and Industry	0.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2201T	Introduction to Horse Science	3
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	0.5
MATH 1148	College Algebra	4
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
<u>1st Year-Spring Semester</u>		
ANMLTEC 3151T	Horse Breeding and Selection	3
ANMLTEC 317IT	Horse Health and Disease	3
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
CHEM 1110 <u>or</u> 1210*	Elementary Chemistry <u>or</u> General Chemistry I	<u>5</u>
		15
<u>2nd Year-Autumn Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 2189.01T	Horse Practicum	1
ANMLTEC 3101T	Equine Marketing and Facility Management	4
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
TECH ELECTIVE	Select from approved list	<u>3</u>
		17
<u>2nd Year-Spring Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
ANMLTEC 2189.01T	Horse Practicum	1
ANMLTEC 3131T	Equine Feeding and Nutrition	2
ANMLTEC 3161T	Applied Equine Reproductive Management	2
COMPSTD 2301 <u>or</u>	Introduction to World Literature	
RELSTDS 2370	<u>or</u> Introduction to Comparative Religion	3
MUSIC 2250 <u>or</u>	Music Cultures of the World	
HISTORY 1152	<u>or</u> American Civilization Since 1877	3
TECH ELECTIVE	Select from approved list	<u>2</u>
		16
Total Credits		65

*Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.

**ANIMSCI-AS HRS
Catalog Year
2016-2017**

**Animal Sciences
Horse Specialization
Associate of Science**

Technical Electives – minimum: 5 credits required

<u>Course</u>	<u>Title</u>	<u>Credits</u>
ANMLTEC 2300T	Introduction to Animal Science Laboratory	1
ANMLTEC 2801T	Horsemanship and Equitation	3
ANMLTEC 2811T	Schooling and Training the Riding Horse	3
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3191.01T	Equine Industry Internship Experience	1-3
ANMLTEC 3201T	Horse Judging and Evaluation	2
MICRBIO 4000	Basic and Practical Microbiology	4

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI		Major: Small Ruminant Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2202T	3
		ANMLTEC 2300T	1
		ANMLTEC 2510.04T	1
		ANMLTEC 2582.04T	1
		ANMLTEC 3130T	2
		ANMLTEC 3132T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3404T	4
		CRPSOIL 2228T	3
	CRPSOIL 2412T	3	
		Total Transferable and Major Courses	26
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI		Major: Small Ruminant Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2202T	3
		ANMLTEC 2300T	1
		ANMLTEC 2510.04T	1
		ANMLTEC 2582.04T	1
		ANMLTEC 3130T	2
		ANMLTEC 3132T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3404T	4
		CRPSOIL 2228T	3
		CRPSOIL 2412T	3
		Total Transferable and Major Courses	26
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ANIMSCI-AS SMR
Catalog Year
2016-2017**

**ANIMAL SCIENCES
Small Ruminant Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2202T	Introduction to Beef and Small Ruminant Production	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ENGLISH 1110.01	First-Year English Composition	3
GENSTDS 1201T	College Orientation	.5
MATH 1148	College Algebra	<u>4</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 <u>or</u> 1210**	Elementary Chemistry <u>or</u> General Chemistry I	5
CRPSOIL 2412T	Forage Crops	3
MUSIC 2250 <u>or</u>	Music Cultures of the World	
HISTORY 1152	<u>or</u> American Civilization Since 1877	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2510.04T	Food Animal Resource Management I-Small Ruminants	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
COMPSTD 2301 <u>or</u>	Introduction to World Literature	
RELSTDS 2370	<u>or</u> Introduction to Comparative Religion	3
CRPSOIL 2228T	Manure Management	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.04T	Food Animal Resource Management I - Small Ruminants	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3404T	Small Ruminant Production and Management	4
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
	Total Credits	65

* A grade of C or better is required to meet graduation requirements.

**Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Swine Specialization**

Ohio State ATI		Major: Swine Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3 3	ENGLISH 1110.01 AGRCOMM 3130	3 3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370* MUSIC 2250* or HISTORY 1152	3 3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3 3	AEDECON 2001 RURLSOC 1500	3 3
NATURAL SCIENCES	min. 6	BIOLOGY 1113 CHEM 1110 or 1210	4 5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T ANMLTEC 2200T	4 3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2300T ANMLTEC 2510.03T ANMLTEC 2582.03T ANMLTEC 2603T ANMLTEC 3403T ANMLTEC 3130T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3170T CRPSOIL 2228T Transferable Elective	1 1 1 3 4 2 2 3 3 3 3
		Total Transferable and Major Courses	26
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ASSOCIATE OF SCIENCE DEGREE
ANIMAL SCIENCES CURRICULUM PLAN
Swine Specialization**

Ohio State ATI		Major: Swine Specialization	
General Education		General Education	
Subject	Sem Cr	Course	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01 AGRCOMM 2367 or 3130 or ENR 2367	3	ENGLISH 1110.01	3
	3	AGRCOMM 3130	3
MATHEMATICS/ STATISTICS AND LOGIC MATHEMATICS	4-5	MATH 1148	4
ARTS AND HUMANITIES Select at least 1 course from 2 of the following areas: Historical Study Culture and Ideas* Literature* Art*	min. 6	COMPSTD 2301* or RELSTDS 2370*	3
		MUSIC 2250* or HISTORY 1152	3
SOCIAL AND BEHAVIORAL SCIENCES Social and Behavioral Sciences AEDECON 2001 RURLSOC 1500	3	AEDECON 2001	3
	3	RURLSOC 1500	3
NATURAL SCIENCES	min. 6	BIOLOGY 1113	4
		CHEM 1110 or 1210	5
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Additional OTM course(s) (from 5 GE categories above) or Open Option (course(s) as defined by OSU Columbus major)		ANMLTEC 3140T	4
		ANMLTEC 2200T	3
Total General Education	37-40	Total General Education	39
Transferable and major courses applicable to OSU bachelor's degree Developed in consultation with affiliated department/unit where appropriate		ANMLTEC 2300T	1
		ANMLTEC 2510.03T	1
		ANMLTEC 2582.03T	1
		ANMLTEC 2603T	3
		ANMLTEC 3403T	4
		ANMLTEC 3130T	2
		ANMLTEC 3133T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		CRPSOIL 2228T	3
		Transferable Elective	3
	Total Transferable and Major Courses	26	
DEGREE TOTAL	60-65	DEGREE TOTAL	65

*COMPSTD 2301 (Literature), MUSIC 2250 (Art), and RELSTDS 2370 (Culture and Ideas) courses offered at Ohio State ATI also fulfill a global studies general education requirement, in addition to the areas that they are designated.

**ANIMSCI-AS SWN
Catalog Year
2016-2017**

**ANIMAL SCIENCES
Swine Specialization
Associate of Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.02T	Exploring Livestock Careers and Industry	.5
ANMLTEC 2200T	Introduction to Animal Sciences	3
ANMLTEC 2300T	Introduction to Animal Sciences Laboratory	1
ANMLTEC 2603T	Swine Production and Management I	3
ENGLISH 1110.01	First-Year English Composition	3
MATH 1148	College Algebra	4
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 3170T	Principles of Livestock Health	3
CHEM 1110 or 1210**	Elementary Chemistry <u>or</u> General Chemistry I	5
MUSIC 2250 <u>or</u>	Music Cultures of the World	
HISTORY 1152	<u>or</u> American Civilization Since 1877	3
Transferable Elective	Consult with Advisor	<u>3</u>
		17
<u>2nd Year – Autumn Semester</u>		
AEDECON 2001	Principles of Food and Resource Economics	3
*ANMLTEC 2510.03T	Food Animal Resource Management I - Swine	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
BIOLOGY 1113	Bio Sci: Energy Transfer and Development	4
COMPSTD 2301 <u>or</u>	Introduction to World Literature	
RELSTDS 2370	<u>or</u> Introduction to Comparative Religion	3
CRPSOIL 2228T	Manure Management	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3133T	Principles of Swine Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3403T	Swine Production and Management II	4
RURLSOC 1500	Introduction to Rural Sociology	<u>3</u>
		17
Total Credits		65

* A grade of C or better is required to meet graduation requirements.

**Chem 1210 is open to students with one unit of high school chemistry and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, 1150 or above.



January 4, 2016

To Whom It May Concern:

I have reviewed the proposed ATI ANIMSCI-AS degree program. The degree program reflects a change in the degree name from Livestock Science to Animal Sciences and reorganization of the major to include specializations in Beef, Dairy, Horse, Swine, and Small Ruminants. This letter provides support from the Department of Animal Sciences for the proposed ANIMSCI-AS program and associated specializations. The proposed changes and realigned curriculums provide a more seamless pathway for a B.S. degree with a major in Animal Sciences on the Columbus campus.

Sincerely,

Pasha A. Lyvers Peffer
Department of Animal Sciences
Chair, Academic Affairs