

Reed, Katie

From: Neal, Steve
Sent: Thursday, July 27, 2017 1:21 PM
To: Smith, Randy
Cc: Reed, Katie; Martin, Linda
Subject: Revision of ATI Dairy, Horse and Livestock Production and Management AAS Programs
Attachments: Livestock P&M, Dairy P&M and Horse P&M AAS Revisions Au17.pdf

Randy,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for revision of the Dairy Cattle Production and Management, Horse Production and Management, and Livestock Production and Management associate of applied science (AAS) majors offered at the Agricultural Technical Institute (see attached proposal). Changes are being made, primarily in the nutrition courses that serve both the AAS and AS animal programs, to better meet the needs of students and to more closely align content with the Department of Animal Sciences on the Columbus campus. In addition, the three ATI majors have reduced total credit hours from 65 to 64. All of the corresponding course changes in the proposal have been submitted through curriculum.osu.edu.

The proposal consists of a current and proposed curriculum plan and course sequence for each of the programs, and in the case of Livestock Production and Management, for each specialization (Beef, Small Ruminant, and Swine). We are requesting that if possible, this proposal be approved effective for autumn semester 2017.

This proposal was reviewed and approved by the ATI Academic Affairs Committee and the College Academic Affairs Committee. Please let me know if any additional information is needed in support of this request.

Steve



Steven M. Neal, Ph.D.

Professor and Assistant Dean for Academic Affairs
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100E Agricultural Administration, 2120 Fyffe Rd. Columbus, OH 43210
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June 5, 2017

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 curriculum plan and course sequence changes for the Associate of Applied Science Dairy Cattle Production and Management (DYPMGT-AA), Horse Production and Management (HRSPMGT-AA), and Livestock Production and Management (LVBSRSW-AA) – Beef (BEF), Small Ruminant (SMR) and Swine (SWN) specializations submitted for consideration by the FAES Academic Affairs Committee.

The proposed revisions to the current program are in alignment with the proposed changes in the Animal Sciences – AS degree program. The result is that students who determine to move from the Associate of Science to the corresponding Associate of Applied Science program (or in fewer instances, *vice versa*) are impacted to the least extent possible without compromising the integrity of either degree program. The proposed revisions are:

Livestock Production and Management – BEF and SMR Specializations:

- ANMLTEC 3130T removed (-2)
- ANMLTEC 3132T changed from 2 to 3 credits (+1)
- ANMLTEC 3150T moved from Technical to Applied Gen Ed category
- Total credit hours changed from 65 to 64.

Livestock Production and Management – SWN Specialization:

- ANMLTEC 3130T removed (-2)
- ANMLTEC 3133T changed from 2 to 3 credits (+1)
- ANMLTEC 3150T moved from Technical to Applied Gen Ed category
- Total credit hours changed from 65 to 64.

Dairy Cattle Production and Management:

- ANMLTEC 3137T changed from 2 to 3 credits (+1)
- ANMLTEC 2787T changed from 2 credits (taken twice) to 1 credit (taken twice) (-2)
- Applied Gen Ed revised:
 - ANMLTEC 3130T removed;
 - CRPSOIL 2300T moved from elective option to required;
 - GENSSC 1181T moved from elective option to required;
 - BUSTEC 1202T and 2207T, and AGRCOMM 3130 removed from elective options
 - net change +1
- No change in total credit hours.

Horse Production and Management:

- ANMLTEC 3130T removed (-2)
- ANMLTEC 3131T changed from 2 to 3 credits (+1)
- BUSTEC 1202T moved from required to Applied Gen Ed elective option (-1)
- GENSSC 1181T moved from Applied Gen Ed elective option to required (+3)
- Total credit hours changed from 63 to 64.

In addition, STAT 1350 was removed as a Mathematics/Statistics option from all 5 programs listed above leaving GENMATH 1141T or GENMATH 1145T as the two remaining options.

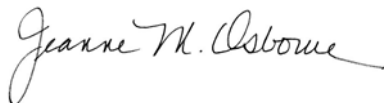
The changes to the current curriculum plan and course sequence for the Associate of Applied Science Dairy Cattle Production and Management (DYPMGT-AA), Horse Production and Management (HRSPMGT-AA), and Livestock Production and Management (LVBSRSW-AA) – Beef (BEF), Small Ruminant (SMR) and Swine (SWN) specializations were approved by the Agricultural 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. This program change will not disrupt progress toward degree for students enrolled in this degree program. 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 plans and course sequences for the Associate of Applied Science Dairy Cattle Production and Management (DYPMGT-AA), Horse Production and Management (HRSPMGT-AA), and Livestock Production and Management (LVBSRSW-AA) – Beef (BEF), Small Ruminant (SMR) and Swine (SWN) specializations.
- Proposed curriculum plans and course sequences for the Associate of Applied Science Dairy Cattle Production and Management (DYPMGT-AA), Horse Production and Management (HRSPMGT-AA), and Livestock Production and Management (LVBSRSW-AA) – Beef (BEF), Small Ruminant (SMR) and Swine (SWN) specializations.

Please let me know if there are questions, or if 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,

A handwritten signature in cursive script that reads "Jeanne M. Osborne".

Jeanne M. Osborne
Assistant Director, Academic Affairs

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Beef Specialization**

Ohio State ATI		Major: Beef Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	2 4 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.02T (2 semesters 1 credit each) ANMLTEC 2582.02T (2 semesters 1 credit each) ANMLTEC 3191.02T	2 2 3
Other courses determined by program		ANMLTEC 2202T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3402T CRPSOIL 2228T Technical Electives (from approved list)	3 2 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	32
DEGREE TOTAL	60-65	DEGREE TOTAL	65

LVBSRSW-AA BEF
Catalog Year
2016-2017

Livestock Production and Management
Beef Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.02T	Beef Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	<u>3</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3402T	Beef Production and Management	4
ANMLTEC 3800T	Principles of Farm Business Management	4
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		16
	Total Credits	65

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

LVBSRSW-AA BEF
Catalog Year
2016-2017

Livestock Production and Management
Beef Specialization
Associate of Applied Science

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science and	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits:

ANMLTEC 3404T	Small Ruminant Production and Management	3
BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**CURRENT
Proposed changes
highlighted**

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Beef Specialization**

Ohio State ATI		Major: Beef Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3150T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	2 4 3 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	3334
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.02T (2 semesters 1 credit each) ANMLTEC 2582.02T (2 semesters 1 credit each) ANMLTEC 3191.02T	2 2 3
Other courses determined by program		ANMLTEC 2202T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3402T CRPSOIL 2228T Technical Electives (from approved list)	3 23 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	3230
DEGREE TOTAL	60-65	DEGREE TOTAL	6564

**LVBSRSW-AA BEF
Catalog Year
2016-2017**

**Livestock Production and Management
Beef Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.02T	Beef Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3130T	Principles of Animal Nutrition	<u>2</u>
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3132T	Principles of Ruminant Nutrition Ruminant Feeds and	<u>23</u>
ANMLTEC 3150T	Feeding	3
ANMLTEC 3402T	Livestock Genetic Improvement	4
ANMLTEC 3800T	Beef Production and Management	4
TECHNICAL ELECTIVE	Principles of Farm Business Management	<u>2</u>
	From approved list	1615
		1615
	Total Credits	6564

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

**LVBSRSW-AA BEF
Catalog Year
2016-2017**

**Livestock Production and Management
Beef Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science and	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits:

ANMLTEC 3404T	Small Ruminant Production and Management	3
BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Beef Specialization**

Ohio State ATI		Major: Beef Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3150T ANMLTEC 3140T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	3 4 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	34
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.02T (2 semesters 1 credit each) ANMLTEC 2582.02T (2 semesters 1 credit each) ANMLTEC 3191.02T	2 2 3
Other courses determined by program		ANMLTEC 2202T ANMLTEC 3132T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3402T CRPSOIL 2228T Technical Electives (from approved list)	3 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	64

**LVBSRSW-AA BEF
Catalog Year
2017-2018**

**Livestock Production and Management
Beef Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or GENMATH 1145T	or Technical Mathematics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.02T	Food Animal Resource Management I – Beef	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.02T	Beef Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.02T	Food Animal Resource Management II – Beef	1
ANMLTEC 3132T	Ruminant Feeds and Feeding	3
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3402T	Beef Production and Management	4
ANMLTEC 3800T	Principles of Farm Business Management	<u>4</u>
		15
	Total Credits	64

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

LVBSRSW-AA BEF
Catalog Year
2017-2018

Livestock Production and Management
Beef Specialization
Associate of Applied Science

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science and	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits:

BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases (Prereq: BUSTEC 1202T)	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Technology and Field Management of Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI		Major: Small Ruminant Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	2 4 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.04T (2 semesters 1 credit each) ANMLTEC 2582.04T (2 semesters 1 credit each) ANMLTEC 3191.04T	2 2 3
Other courses determined by program		ANMLTEC 2202T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3404T CRPSOIL 2228T Technical Electives (from approved list)	3 2 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	32
DEGREE TOTAL	60-65	DEGREE TOTAL	65

**LVBSRSW-AA SMR
Catalog Year
2016-2017**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.04T	Small Ruminant Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	<u>3</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3132T	Principles of Ruminant Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3404T	Small Ruminant Production and Management	4
ANMLTEC 3800T	Principles of Farm Business Management	4
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		16
	Total Credits	65

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

**LVBSRSW-AA SMR
Catalog Year
2016-2017**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T and 2301T	Introduction to Soil Science and and Introduction to Soil Science Lab	3 1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

ANMLTEC 3402T	Beef Production and Management	3
BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**CURRENT
Proposed Changes
Highlighted**

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI		Major: Small Ruminant Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T	2
		ANMLTEC 3140T	4
		ANMLTEC 3150T	3
		ANMLTEC 3800T	4
		AEDECON 2105	3
		Choose 3 credits from the following:	
		AGRCOMM 2367	3
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.02T	0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	3334
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.04T (2 semesters 1 credit each)	2
		ANMLTEC 2582.04T (2 semesters 1 credit each)	2
		ANMLTEC 3191.04T	3
Other courses determined by program		ANMLTEC 2202T	3
		ANMLTEC 3132T	23
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3200T	2
		ANMLTEC 3404T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	5
Technical Studies Total	max 35	Technical Studies Total	3230
DEGREE TOTAL	60-65	DEGREE TOTAL	6564

**LVBSRSW-AA SMR
Catalog Year
2016-2017**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.04T	Small Ruminant Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3130T	Principles of Animal Nutrition	<u>2</u>
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3132T	Principles of Ruminant Nutrition Ruminant Feeds and Feeding	<u>23</u>
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3404T	Small Ruminant Production and Management	4
ANMLTEC 3800T	Principles of Farm Business Management	4
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		1615
	Total Credits	6564

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

**LVBSRSW-AA SMR
Catalog Year
2016-2017**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science and	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

ANMLTEC 3402T	Beef Production and Management	3
BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Small Ruminant Specialization**

Ohio State ATI		Major: Small Ruminant Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3140T ANMLTEC 3150T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	4 3 4 3 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	34
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.04T (2 semesters 1 credit each) ANMLTEC 2582.04T (2 semesters 1 credit each) ANMLTEC 3191.04T	2 2 3
Other courses determined by program		ANMLTEC 2202T ANMLTEC 3132T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3404T CRPSOIL 2228T Technical Electives (from approved list)	3 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	64

**LVBSRSW-AA SMR
Catalog Year
2017-2018**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied 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 2202T	Introduction to Beef and Small Ruminant Production	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ENGLISH 1110.01	First Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or GENMATH 1145T	or Technical Mathematics	
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.04T	Food Animal Resource Management I – Small Ruminants	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.04T	Small Ruminant Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.04T	Food Animal Resource Management II – Small Ruminants	1
ANMLTEC 3132T	Ruminant Feeds and Feeding	3
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3404T	Small Ruminant Production and Management	4
ANMLTEC 3800T	Principles of Farm Business Management	<u>4</u>
		15
	Total Credits	64

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

**LVBSRSW-AA SMR
Catalog Year
2017-2018**

**Livestock Production and Management
Small Ruminant Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T and 2301T	Introduction to Soil Science and and Introduction to Soil Science Lab	3 1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases (Prereq: BUSTEC 1202T)	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2412T	Technology and Field Management of Forage Crops	3
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Swine Specialization**

Ohio State ATI		Major: Swine Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	2 4 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.03T (2 semesters 1 credit each) ANMLTEC 2582.03T (2 semesters 1 credit each) ANMLTEC 3191.03T	2 2 3
Other courses determined by program		ANMLTEC 2603T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3403T CRPSOIL 2228T Technical Electives (from approved list)	3 2 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	32
DEGREE TOTAL	60-65	DEGREE TOTAL	65

LVBSRSW-AA SWN
Catalog Year
2016-2017

Livestock Production and Management
Swine Specialization
Associate of Applied 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 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 2603T	Swine Production and Management I	3
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	3
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.03T	Swine Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	<u>3</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3133T	Principles of Swine Nutrition	2
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3403T	Swine Production and Management II	4
ANMLTEC 3800T	Principles of Farm Business Management	4
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		16
	Total Credits	65

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

**LVBSRSW-AA SWN
Catalog Year
2016-2017**

**Livestock Production and Management
Swine Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 1202T	Software Applications	1
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Swine Specialization**

Ohio State ATI		Major: Swine Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3150T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	2 4 3 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	3334
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.03T (2 semesters 1 credit each) ANMLTEC 2582.03T (2 semesters 1 credit each) ANMLTEC 3191.03T	2 2 3
Other courses determined by program		ANMLTEC 2603T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3403T CRPSOIL 2228T Technical Electives (from approved list)	3 23 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	3230
DEGREE TOTAL	60-65	DEGREE TOTAL	6564

**CURRENT
Proposed Changes
Highlighted**

**LVBSRSW-AA SWN
Catalog Year
2016-2017**

**Livestock Production and Management
Swine Specialization
Associate of Applied 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 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 2603T	Swine Production and Management I	3
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	3
or 1145T or STAT 1350	or Technical Mathematics or Elementary Statistics	3
GENSTDS 1201T	College Orientation	.5
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	3
		16
<u>Summer Term</u>		
*ANMLTEC 3191.03T	Swine Industry Internship	3
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3130T	Principles of Animal Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	2
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3133T	Principles of Swine Nutrition Practical Swine Feeding	23
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3403T	Swine Production and Management II	4
ANMLTEC 3800T	Principles of Farm Business Management	4
TECHNICAL ELECTIVE	From approved list	2
		1615
	Total Credits	6564

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

**LVBSRSW-AA SWN
Catalog Year
2016-2017**

**Livestock Production and Management
Swine Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 1202T	Software Applications	1
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
LIVESTOCK PRODUCTION AND MANAGEMENT CURRICULUM PLAN
Swine Specialization**

Ohio State ATI		Major: Swine Specialization	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3150T ANMLTEC 3140T ANMLTEC 3800T AEDECON 2105 Choose 3 credits from the following: AGRCOMM 2367 BUSTEC 2241T COMPSTD 2301 COMPSTD 2370 CRPSOIL 2300T AND 2301T ENR 2300 GENCHEM 1100T GENSSC 1181T MICRBIO 4000	3 4 4 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.02T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	34
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.03T (2 semesters 1 credit each) ANMLTEC 2582.03T (2 semesters 1 credit each) ANMLTEC 3191.03T	2 2 3
Other courses determined by program		ANMLTEC 2603T ANMLTEC 3133T ANMLTEC 3170T ANMLTEC 3200T ANMLTEC 3403T CRPSOIL 2228T Technical Electives (from approved list)	3 3 3 2 4 3 5
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	64

**LVBSRSW-AA SWN
Catalog Year
2017-2018**

**Livestock Production and Management
Swine Specialization
Associate of Applied 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 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 2603T	Swine Production and Management I	3
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENMATH 1141T	Business Mathematics	
or GENMATH 1145T	or Technical Mathematics	3
GENSTDS 1201T	College Orientation	<u>.5</u>
		15
<u>1st Year – Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
*ANMLTEC 2510.03T	Food Animal Resource Management I – Swine	1
ANMLTEC 3170T	Principles of Livestock Health	3
AEDECON 2001	Principles of Food and Resource Economics	3
APPLIED GEN ED	Elective from approved list	3
TECHNICAL ELECTIVE	From approved list	<u>3</u>
		16
<u>Summer Term</u>		
*ANMLTEC 3191.03T	Swine Industry Internship	<u>3</u>
		3
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3200T	Livestock Selection and Evaluation	2
CRPSOIL 2228T	Manure Management	3
TECHNICAL ELECTIVE	From approved list	<u>2</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2582.03T	Food Animal Resource Management II – Swine	1
ANMLTEC 3133T	Practical Swine Feeding	3
ANMLTEC 3150T	Livestock Genetic Improvement	3
ANMLTEC 3403T	Swine Production and Management II	4
ANMLTEC 3800T	Principles of Farm Business Management	<u>4</u>
		16
	Total Credits	64

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

**LVBSRSW-AA SWN
Catalog Year
2017-2018**

**Livestock Production and Management
Swine Specialization
Associate of Applied Science**

Applied Gen Ed Elective options – minimum 3 credits required:

AGRCOMM 2367	Agricultural Issues in Contemporary Society	3
BUSTEC 2241T	Small Business Management	3
COMPSTD 2301	Introduction to World Literature	3
CRPSOIL 2300T	Introduction to Soil Science	3
and 2301T	and Introduction to Soil Science Lab	1
ENR 2300	Society and Natural Resources	3
GENCHEM 1100T	Introduction to General Chemistry	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
MICRBIO 4000	Basic and Practical Microbiology	4
RELSTDS 2370	Introduction to Comparative Religion	3

Technical Elective options – minimum 5 credits required:

BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases <i>(Prereq: BUSTEC 1202T)</i>	2
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
ENGTECH 2092T	Problem Solving : Career and Society Applications	2
MEATSCI 2010	Bar-B-Que Science	2

**ASSOCIATE OF APPLIED SCIENCE DEGREE
DAIRY CATTLE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Dairy Cattle Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	STAT 1350 or GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIO 1200T	4
From any of the General Education categories (listed above)	3	ANMLTEC 3140T	4
Total General	min. 15	Total General	17
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 ANMLTEC 3130T ANMLTEC 3157T Choose 3 credits from the following courses: BUSTEC 1202T and 2207T BUSTEC 2244T BUSTEC 2247T BUSTEC 2249T *CRPSOIL 2300T Choose 1 from the following 3 courses: AGRCOMM 3130 *CRPSOIL 2300T GENSSC 1181T	3 2 3 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.07T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	32
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2787T (2 semesters at 2 credits each) ANMLTEC 3191.07T	4 2
Other courses determined by program		ANMLTEC 2797T ANMLTEC 3137T ANMLTEC 3167T ANMLTEC 3177T ANMLTEC 3207T ANMLTEC 3407T ANMLTEC 3800T or 3887T Technical Electives (from list)	1 2 4 4 2 3 4 6
Technical Studies Total	max 35	Technical Studies Total	32
DEGREE TOTAL	60-65	DEGREE TOTAL	64

* Can only be used in one category: General Education, Applied General Education, or Technical elective.

DYPMGT-AA
Catalog Year
2016-2017

Dairy Cattle Production and Management
Associate of Applied Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.07T	Exploring Dairy Careers and Industry	0.5
ANMLTEC 3167T	Dairy Cattle Milking and Reproductive Management	4
ANMLTEC 3207T	Dairy Cattle Evaluation and Herd Records	2
GENBIOL 1200T	General Biology	4
STAT 1350	Elementary Statistics	3
or GENMATH 1141T	or Business Mathematics	
or GENMATH 1145T	or Technical Mathematics	
GENSTDS 1201T	College Orientation	<u>0.5</u>
		14
<u>1st Year – Spring Semester</u>		
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3177T	Dairy Cattle Health Management	4
AEDECON 2001	Principles of Food and Resource Economics	3
ENGLISH 1110.01	First-Year English Composition	3
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		17
<u>Summer Term</u>		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u>
		2
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2787T	Applied Dairy Herd Practices and 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
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		15
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2787T	Applied Dairy Herd Practices and Management	2
ANMLTEC 2797T	Dairy Industry Seminar and Experience	1
ANMLTEC 3157T	Dairy Cattle Genetic Improvement	3
ANMLTEC 3800T	Principles of Farm Business Management	4
or 3887T	or Integrated Dairy Farm Business Management	
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>6</u>
		16
	Total Credits	64

Required Electives:

+ Applied General Education Electives (6 credits required from approved lists) and Technical Electives (6 credits required from approved list)

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

DYPMGT-AA
Catalog Year
2016-2017

Dairy Cattle Production and Management
Associate of Applied Science

Technical Elective options – 6 credit hours required:

ANMLTEC 2400T	Sustainable Animal Systems and Marketing	3
ANMLTEC 2707T	Dairy Cattle Presentation	1
BIOTECH 2218T	General and Applied Entomology	3
BIOTECH 2219T	Pesticides and Their Use	3
**BUSTEC 1202T	Software Applications	1
**BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2232T	Personal Selling	3
BUSTEC 2239T	Real Estate Dynamics	2
**BUSTEC 2244T	Human Resource Management and Leadership	3
**BUSTEC 2247T	Business Law	3
BUSTEC 2248T	Introduction to Cooperatives	2
**BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2201T	Sustainable Cropping Systems and Marketing	3
CRPSOIL 2210T	Sustainable Agriculture Methods	1
CRPSOIL 2228T	Manure Management	3
CRPSOIL 2265T	Integrated Pest Management	2
# CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Laboratory	1
CRPSOIL 2411T	Grain and Oilseed Crops	3
CRPSOIL 2412T	Forage Crops	3
CRPSOIL 2422T	Principles of Weed Control	3
CRPSOIL 2580T	Soil Fertility and Fertilizers	3
ENGTECH 2011T	Small Engine Basics	4
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
ENGTECH 2016T	Tillage, Planting, Harvesting, and Storage Equipment	3
ENGTECH 2240T	Welding Technology	3
ENGTECH 2324T	Engine Diagnosis and Repair	3
ENGTECH 2338T	Diesel Engine Systems	3

Applied General Education Electives:

Group 1 - Choose 1 of the following 3 courses:

AGRCOMM 3130	Oral Expression in Agriculture	3
# CRPSOIL 2300T	Introduction to Soil Science	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3

Group 2 - Choose 3 credit hours from the following courses:

BUSTEC 1202T	Software Applications (1)	3
and 2207T	Problem Solving with Spreadsheets and Databases (2)	
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
# CRPSOIL 2300T	Introduction to Soil Science	3

Can only be used to satisfy one requirement; cannot double count

** If not used as an applied general education elective.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
DAIRY CATTLE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Dairy Cattle Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	STAT 1350 or GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIO 1200T	4
From any of the General Education categories (listed above)	3	ANMLTEC 3140T	4
Total General	min. 15	Total General	17
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 ANMLTEC 3130T ANMLTEC 3157T CRPSOIL 2300T GENSSC 1181T Choose 3 credits from the following courses: BUSTEC 1202T and 2207T BUSTEC 2244T BUSTEC 2247T BUSTEC 2249T *CRPSOIL 2300T Choose 1 from the following 3 courses: AGRCOMM 3130 *CRPSOIL 2300T GENSSC 1181T	3 2 3 3 3 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.07T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	3233
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2787T (2 semesters at 21 credits each) ANMLTEC 3191.07T	42 2
Other courses determined by program		ANMLTEC 2797T ANMLTEC 3137T ANMLTEC 3167T ANMLTEC 3177T ANMLTEC 3207T ANMLTEC 3407T ANMLTEC 3800T or 3887T Technical Electives (from list)	1 23 4 4 2 3 4 6
Technical Studies Total	max 35	Technical Studies Total	3231
DEGREE TOTAL	60-65	DEGREE TOTAL	64

* Can only be used in one category: General Education, Applied General Education, or Technical elective.

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.07T	Exploring Dairy Careers and Industry	0.5
ANMLTEC 3167T	Dairy Cattle Milking and Reproductive Management	4
ANMLTEC 3207T	Dairy Cattle Evaluation and Herd Records	2
GENBIOL 1200T	General Biology	4
STAT 1350	Elementary Statistics	3
or GENMATH 1141T	or Business Mathematics	
or GENMATH 1145T	or Technical Mathematics	
GENSTDS 1201T	College Orientation	0.5
		14
<u>1st Year – Spring Semester</u>		
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3177T	Dairy Cattle Health Management	4
AEDECON 2001	Principles of Food and Resource Economics	3
ENGLISH 1110.01	First-Year English Composition	3
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		17
<u>Summer Term</u>		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u>
		2
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2787T	Applied Dairy Herd Practices and Management	<u>21</u>
ANMLTEC 3130T	Principles of Animal Nutrition	<u>2</u>
ANMLTEC 3137T	Dairy Cattle Feeding Management	<u>23</u>
ANMLTEC 3407T	Dairy Cattle Facilities, Environment, and Equipment	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	<u>3</u>
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		1516
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2787T	Applied Dairy Herd Practices and Management	<u>21</u>
ANMLTEC 2797T	Dairy Industry Seminar and Experience	1
ANMLTEC 3157T	Dairy Cattle Genetic Improvement	3
ANMLTEC 3800T	Principles of Farm Business Management	4
or 3887T	or Integrated Dairy Farm Business Management	
CRPSOIL 2300T	Introduction to Soil Science	<u>3</u>
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>63</u>
		1615
	Total Credits	64

Required Electives:

+ Applied General Education Electives (6 credits required from approved lists) and Technical Electives (6 credits required from approved list)

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

The elective options have been reorganized significantly – please see the proposed sequence for the revised structure

**DYPMGT-AA
Catalog Year
2016-2017**

**Dairy Cattle Production and Management
Associate of Applied Science**

Technical Elective options – 6 credit hours required:

ANMLTEC 2400T	Sustainable Animal Systems and Marketing	3
ANMLTEC 2707T	Dairy Cattle Presentation	1
BIOTECH 2218T	General and Applied Entomology	3
BIOTECH 2219T	Pesticides and Their Use	3
**BUSTEC 1202T	Software Applications	1
**BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
BUSTEC 2232T	Personal Selling	3
BUSTEC 2239T	Real Estate Dynamics	2
**BUSTEC 2244T	Human Resource Management and Leadership	3
**BUSTEC 2247T	Business Law	3
BUSTEC 2248T	Introduction to Cooperatives	2
**BUSTEC 2249T	Fundamentals of Business Finance	3
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2201T	Sustainable Cropping Systems and Marketing	3
CRPSOIL 2210T	Sustainable Agriculture Methods	1
CRPSOIL 2228T	Manure Management	3
CRPSOIL 2265T	Integrated Pest Management	2
# CRPSOIL 2300T	Introduction to Soil Science	3
CRPSOIL 2301T	Introduction to Soil Science Laboratory	1
CRPSOIL 2411T	Grain and Oilseed Crops	3
CRPSOIL 2412T	Forage Crops	3
CRPSOIL 2422T	Principles of Weed Control	3
CRPSOIL 2580T	Soil Fertility and Fertilizers	3
ENGTECH 2011T	Small Engine Basics	4
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
ENGTECH 2016T	Tillage, Planting, Harvesting, and Storage Equipment	3
ENGTECH 2240T	Welding Technology	3
ENGTECH 2324T	Engine Diagnosis and Repair	3
ENGTECH 2338T	Diesel Engine Systems	3

Applied General Education Electives:

Group 1 - Choose 1 of the following 3 courses:

AGRCOMM 3130	Oral Expression in Agriculture	3
# CRPSOIL 2300T	Introduction to Soil Science	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3

Group 2 - Choose 3 credit hours from the following courses:

BUSTEC 1202T	Software Applications (1)	3
and 2207T	Problem Solving with Spreadsheets and Databases (2)	
BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3
# CRPSOIL 2300T	Introduction to Soil Science	3

Can only be used to satisfy one requirement; cannot double count

** If not used as an applied general education elective.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
DAIRY CATTLE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Dairy Cattle Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/ ORAL COMMUNICATION ENGLISH 1110.01	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES OR ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES	3	GENBIO 1200T	4
From any of the General Education categories (listed above)	3	ANMLTEC 3140T	4
Total General	min. 15	Total General	17
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		AEDECON 2105 ANMLTEC 3157T CRPSOIL 2300T GENSSC 1181T Choose 3 credits from the following courses: BUSTEC 2244T BUSTEC 2247T BUSTEC 2249T	3 3 3 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.07T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2787T (2 semesters at 1 credits each) ANMLTEC 3191.07T	2 2
Other courses determined by program		ANMLTEC 2797T ANMLTEC 3137T ANMLTEC 3167T ANMLTEC 3177T ANMLTEC 3207T ANMLTEC 3407T ANMLTEC 3800T or 3887T Technical Electives (from list)	1 3 4 4 2 3 4 6
Technical Studies Total	max 35	Technical Studies Total	31
DEGREE TOTAL	60-65	DEGREE TOTAL	64

**DYPMGT-AA
Catalog Year
2017-2018**

**Dairy Cattle Production and Management
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year – Autumn Semester</u>		
ANMLTEC 1201.07T	Exploring Dairy Careers and Industry	0.5
ANMLTEC 3167T	Dairy Cattle Milking and Reproductive Management	4
ANMLTEC 3207T	Dairy Cattle Evaluation and Herd Records	2
GENBIOL 1200T	General Biology	4
GENMATH 1141T or GENMATH 1145T	Business Mathematics or Technical Mathematics	3
GENSTDS 1201T	College Orientation	<u>0.5</u>
		14
<u>1st Year – Spring Semester</u>		
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3177T	Dairy Cattle Health Management	4
AEDECON 2001	Principles of Food and Resource Economics	3
ENGLISH 1110.01	First-Year English Composition	3
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		17
<u>Summer Term</u>		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u>
		2
<u>2nd Year – Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
*ANMLTEC 2787T	Applied Dairy Herd Practices and Management	1
ANMLTEC 3137T	Dairy Cattle Feeding Management	3
ANMLTEC 3407T	Dairy Cattle Facilities, Environment, and Equipment	3
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		16
<u>2nd Year – Spring Semester</u>		
*ANMLTEC 2787T	Applied Dairy Herd Practices and Management	1
ANMLTEC 2797T	Dairy Industry Seminar and Experience	1
ANMLTEC 3157T	Dairy Cattle Genetic Improvement	3
ANMLTEC 3800T or 3887T	Principles of Farm Business Management or Integrated Dairy Farm Business Management	4
CRPSOIL 2300T	Introduction to Soil Science	3
+ ELECTIVE	Technical or Applied Gen Ed (From approve elective lists)	<u>3</u>
		15
	Total Credits	64

Required Electives:

+ Applied General Education Electives (3 credits required from approved list) and Technical Electives (6 credits required from approved list)

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

**DYPMGT-AA
Catalog Year
2017-2018**

**Dairy Cattle Production and Management
Associate of Applied Science**

Applied General Education Elective Options – 3 credits required:

BUSTEC 2244T	Human Resource Management and Leadership	3
BUSTEC 2247T	Business Law	3
BUSTEC 2249T	Fundamentals of Business Finance	3

Technical Elective Options – 6 credits required:

Priority Technical Electives Options:

**BUSTEC 2244T	Human Resource Management and Leadership	3
**BUSTEC 2247T	Business Law	3
**BUSTEC 2249T	Fundamentals of Business Finance	2
CRPSOIL 2228T	Manure Management	3
CRPSOIL 2412T	Technology and Field Management of Forage Crops	3

Additional Technical Elective Options:

ANMLTEC 2400T	Sustainable Animal Systems and Marketing (Prereq: CRPSOIL 2200T)	3
ANMLTEC 2707T	Dairy Cattle Presentation	1
BIOTECH 2218T	General and Applied Entomology	3
BIOTECH 2219T	Pesticides and Their Use	3
BUSTEC 2232T	Personal Selling	3
BUSTEC 2248T	Introduction to Cooperatives	2
CRPSOIL 2200T	Introduction to Sustainable Agriculture	2
CRPSOIL 2201T	Sustainable Cropping Systems and Marketing (Prereq: CRPSOIL 2200T)	3
CRPSOIL 2210T	Sustainable Agriculture Methods (Prereq: CRPSOIL 2200T)	1
CRPSOIL 2301T	Introduction to Soil Science Laboratory	1
CRPSOIL 2422T	Weed Control Technology	3
CRPSOIL 2580T	Soil Fertility and Fertilizers	3
ENGTECH 2011T	Small Engine Basics	4
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
ENGTECH 2016T	Tillage, Planting, Harvesting, and Storage Equipment	3
ENGTECH 2240T	Welding Technology	3
ENGTECH 2324T	Engine Diagnosis and Repair (Prereq: ENGTECH 2011T)	3

** If not used as an applied general education elective; cannot double count.

**ASSOCIATE OF APPLIED SCIENCE DEGREE
HORSE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Horse Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES or ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES		GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T BUSTEC 2241T AEDECON 2105 BUSTEC 1202T ELECTIVE (select 1): GENSSC 1181T, CRPSOIL 2300T and 2301T, AGRCOMM 2367, RELSTDS 2370, COMPSTD 2301, ENR 2300, ENR 2367; MICRBIO 4000, GENCHEM 1100T	2 4 3 3 1 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.01T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2189.01T (2 @ 1 cr. each) ANMLTEC 2190.01T ANMLTEC 3191.01T ANMLTEC 2201T ANMLTEC 3101T ANMLTEC 3131T ANMLTEC 3151T ANMLTEC 3171T ANMLTEC 3201T ENGTECH 2015T	2 1 3 3 4 2 3 3 2 2
Other courses determined by program		<u>Technical Electives (5 cr. hrs. needed)</u> Choose from: ANMLTEC 2801T ANMLTEC 2811T ANMLTEC 3161T CRPSOIL 2412T BUSTEC 2232T	3 3 2 3 3
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	63

HRSPMGT-AA
Catalog Year
2016-2017

Horse Production and Management
Associate of Applied Science

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year-Autumn Semester</u>		
ANMLTEC 1201.01T	Exploring Equine Careers and Industry	0.5
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 2201T	Introduction to Horse Science	3
BUSTEC 1202T	Software Applications	1
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENSTDS 1201T	College Orientation	0.5
TECHNICAL ELECTIVE or GENMATH 1141T/1145T or STAT 1350	From approved list (riding) or Business Mathematics / Technical Mathematics or Elementary Statistics (non-riding)	<u>2/3</u>
		15-16
<u>1st Year-Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 3151T	Horse Breeding and Selection	3
ANMLTEC 3201T	Horse Judging and Evaluation	2
AEDECON 2001	Principles of Food and Resource Economics	3
TECHNICAL ELECTIVE or GENMATH 1141T/1145T or STAT 1350	From approved list (non-riding) or Business Mathematics / Technical Mathematics or Elementary Statistics (riding)	<u>3</u>
		15
<u>Summer Term</u>		
ANMLTEC 3191.01T	Equine Industry Internship Experience	<u>3</u>
		3
<u>2nd Year-Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
ANMLTEC 2190.01T	Leadership in Equine Operations Management	1
ANMLTEC 3101T	Equine Marketing and Facility Management	4
ANMLTEC 3130T	Principles of Animal Nutrition	2
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
TECHNICAL ELECTIVE or APPLIED GEN ED	From approved list (riding) or Elective - Choose 1 from: (non-riding)	<u>3</u>
	AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367 GENCHEM 1100T, GENSSC 1181T, MICRBIO 4000	15
<u>2nd Year-Spring Semester</u>		
ANMLTEC 3131T	Equine Feeding and Nutrition	2
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3171T	Horse Health and Disease	3
BUSTEC 2241T	Small Business Management	3
TECHNICAL ELECTIVE or APPLIED GEN ED	From approved list (non-riding) or Elective - Choose 1 from: (riding)	<u>3</u>
	AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367, GENCHEM 1100T, GENSSC 1181T, MICRBIO 4000	15

TOTAL 63

HRSPMGT-AA
Catalog Year
2016-2017

Horse Production and Management
Associate of Applied Science

Technical Elective options – 5 credit hours required

ANMLTEC 2801T	Horsemanship and Equitation (riding elective)	3
ANMLTEC 2811T	Schooling and Training the Riding Horse (riding elective)	3
ANMLTEC 3161T	Applied Equine Reproductive Management	2
BUSTEC 2232T	Personal Selling	3
CRPSOIL 2412T	Forage Crops	3

**ASSOCIATE OF APPLIED SCIENCE DEGREE
HORSE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Horse Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES or ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES		GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3130T ANMLTEC 3140T BUSTEC 2241T AEDECON 2105 BUSTEC 1202T GENSSC 1181T ELECTIVE (select 1): BUSTEC 1202T, GENSSC 1181T , CRPSOIL 2300T and 2301T, AGRCOMM 2367, RELSTDS 2370, COMPSTD 2301, ENR 2300, ENR 2367; MICRBIO 4000, GENCHEM 1100T	2 4 3 3 1 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.01T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2189.01T (2 @ 1 cr. each) ANMLTEC 2190.01T ANMLTEC 3191.01T ANMLTEC 2201T ANMLTEC 3101T ANMLTEC 3131T ANMLTEC 3151T ANMLTEC 3171T ANMLTEC 3201T ENGTECH 2015T	2 1 3 3 4 23 3 3 2 2
Other courses determined by program		<u>Technical Electives (5 cr. hrs. needed)</u> Choose from: ANMLTEC 2801T ANMLTEC 2811T ANMLTEC 3161T CRPSOIL 2412T BUSTEC 2232T	 3 3 2 3 3
Technical Studies Total	max 35	Technical Studies Total	3031
DEGREE TOTAL	60-65	DEGREE TOTAL	6364

**HRSPMGT-AA
Catalog Year
2016-2017**

**Horse Production and Management
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year-Autumn Semester</u>		
ANMLTEC 1201.01T	Exploring Equine Careers and Industry	0.5
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 2201T	Introduction to Horse Science	3
BUSTEC 1202T	Software Applications	1
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENSTDS 1201T	College Orientation	0.5
TECHNICAL ELECTIVE or GENMATH 1141T/1145T or STAT 1350	From approved list (riding 5 total credits required) or Business Mathematics / Technical Mathematics or Elementary Statistics (non-riding)	2/3 14-15-16
<u>1st Year-Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 3151T	Horse Breeding and Selection	3
ANMLTEC 3201T	Horse Judging and Evaluation	2
AEDECON 2001	Principles of Food and Resource Economics	3
TECHNICAL ELECTIVE or GENMATH 1141T/1145T or STAT 1350	From approved list (non-riding 5 total credits required) or Business Mathematics / Technical Mathematics or Elementary Statistics (riding)	2/3 14-15
<u>Summer Term</u>		
ANMLTEC 3191.01T	Equine Industry Internship Experience	3 3
<u>2nd Year-Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
ANMLTEC 2190.01T	Leadership in Equine Operations Management	1
ANMLTEC 3101T	Equine Marketing and Facility Management	4
ANMLTEC 3130T	Principles of Animal Nutrition	2
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
TECHNICAL ELECTIVE or APPLIED GEN ED ELEC	From approved list (riding 5 total credits required) or Elective —Choose 1 from the following: (non-riding) AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367 GENCHEM 1100T, GENSSC 1181T , BUSTEC 1202T , MICRBIO 4000	2/3 15-16
<u>2nd Year-Spring Semester</u>		
ANMLTEC 3131T	Equine Feeding and Nutrition	2 3
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3171T	Horse Health and Disease	3
BUSTEC 2241T	Small Business Management	3
TECHNICAL ELECTIVE or APPLIED GEN ED ELEC	From approved list (non-riding 5 total credits required) or Elective —Choose 1 from the following: (riding) AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367, GENCHEM 1100T, GENSSC 1181T , BUSTEC 1202T , MICRBIO 4000	2/3 15-16
TOTAL		6364

Technical Elective options – 5 credit hours required

ANMLTEC 2801T	Horsemanship and Equitation (riding elective)	3
ANMLTEC 2811T	Schooling and Training the Riding Horse (riding elective)	3
ANMLTEC 3161T	Applied Equine Reproductive Management	2
BUSTEC 2232T	Personal Selling	3
CRPSOIL 2412T	Forage Crops	3

**ASSOCIATE OF APPLIED SCIENCE DEGREE
HORSE PRODUCTION AND MANAGEMENT CURRICULUM PLAN**

Ohio State ATI		Major: Horse Production and Management	
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
ENGLISH COMPOSITION/ ORAL COMMUNICATION	3	ENGLISH 1110.01	3
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T	3
SOCIAL/BEHAVIORAL SCIENCES or ARTS AND HUMANITIES	3	AEDECON 2001	3
NATURAL SCIENCES		GENBIOL 1200T	4
From any of the General Education categories (listed above)	3	AGRCOMM 3130	3
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the following: General Education categories Applied Sciences Business		ANMLTEC 3140T BUSTEC 2241T AEDECON 2105 GENSSC 1181T ELECTIVE (select 1): BUSTEC 1202T, CRPSOIL 2300T and 2301T, AGRCOMM 2367, RELSTDS 2370, COMPSTD 2301, ENR 2300, ENR 2367; MICRBIO 4000, GENCHEM 1100T	4 3 3 3 3
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T ANMLTEC 1201.01T	0.5 0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	33
Technical Studies		Technical Studies	
Industry/Practical Experience 3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2189.01T (2 @ 1 cr. each) ANMLTEC 2190.01T ANMLTEC 3191.01T ANMLTEC 2201T ANMLTEC 3101T ANMLTEC 3131T ANMLTEC 3151T ANMLTEC 3171T ANMLTEC 3201T ENGTECH 2015T	2 1 3 3 4 3 3 3 2 2
Other courses determined by program		<u>Technical Electives (5 cr. hrs. needed)</u> Choose from: ANMLTEC 2801T ANMLTEC 2811T ANMLTEC 3161T CRPSOIL 2412T BUSTEC 2232T	3 3 2 3 3
Technical Studies Total	max 35	Technical Studies Total	31
DEGREE TOTAL	60-65	DEGREE TOTAL	64

**HRSPMGT-AA
Catalog Year
2017-2018**

**Horse Production and Management
Associate of Applied Science**

<u>Course</u>	<u>Title</u>	<u>Credits</u>
<u>1st Year-Autumn Semester</u>		
ANMLTEC 1201.01T	Exploring Equine Careers and Industry	0.5
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 2201T	Introduction to Horse Science	3
ENGLISH 1110.01	First-Year English Composition	3
GENBIOL 1200T	General Biology	4
GENSTDS 1201T	College Orientation	0.5
TECHNICAL ELECTIVE or GENMATH 1141T/1145T	From approved list (5 total credits required) or Business Mathematics / Technical Mathematics	<u>2/3</u> 14-15
<u>1st Year-Spring Semester</u>		
AGRCOMM 3130	Oral Expression in Agriculture	3
ANMLTEC 2189.01T	Horse Practicum (2 semesters at 1 credit each)	1
ANMLTEC 3151T	Horse Breeding and Selection	3
ANMLTEC 3201T	Horse Judging and Evaluation	2
AEDECON 2001	Principles of Food and Resource Economics	3
TECHNICAL ELECTIVE or GENMATH 1141T/1145T	From approved list (5 total credits required) or Business Mathematics / Technical Mathematics	<u>2/3</u> 14-15
<u>Summer Term</u>		
ANMLTEC 3191.01T	Equine Industry Internship Experience	<u>3</u> 3
<u>2nd Year-Autumn Semester</u>		
AEDECON 2105	Managerial Records and Analysis	3
ANMLTEC 2190.01T	Leadership in Equine Operations Management	1
ANMLTEC 3101T	Equine Marketing and Facility Management	4
ENGTECH 2015T	Agricultural Equipment Operation and Maintenance	2
GENSSC 1181T	Hispanic Culture and Language in the Workplace	3
TECHNICAL ELECTIVE or APPLIED GEN ED ELEC	From approved list (5 total credits required) Choose 1 from the following: (3 total credits required) AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367 GENCHEM 1100T, BUSTEC 1202T, MICRBIO 4000	<u>2/3</u> 15-16
<u>2nd Year-Spring Semester</u>		
ANMLTEC 3131T	Equine Feeding and Nutrition	3
ANMLTEC 3140T	Animal Anatomy and Physiology	4
ANMLTEC 3171T	Horse Health and Disease	3
BUSTEC 2241T	Small Business Management	3
TECHNICAL ELECTIVE or APPLIED GEN ED ELEC	From approved list (5 total credits required) Choose 1 from the following: (3 total credits required) AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370, CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367 GENCHEM 1100T, BUSTEC 1202T, MICRBIO 4000	<u>2/3</u> 15-16

TOTAL 64

**HRSPMGT-AA
Catalog Year
2017-2018**

**Horse Production and Management
Associate of Applied Science**

Technical Elective options – 5 credit hours required

ANMLTEC 2801T	Horsemanship and Equitation (riding elective)	3
ANMLTEC 2811T	Schooling and Training the Riding Horse (riding elective)	3
ANMLTEC 3161T	Applied Equine Reproductive Management	2
BUSTEC 2232T	Personal Selling	3
CRPSOIL 2412T	Technology and Field Management of Forage Crops	3