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
College of Food, Agricultural, and Environmental Sciences
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Ohio State ATI

1328 Dover Road Wooster, OH 44691-9000

> 330-287-1330 Phone 330-287-1333 Fax

> > ati.osu.edu

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;
 - o GENSSC 1181T moved from elective option to required;
 - BUSTEC 1202T and 2207T, and AGRCOMM 3130 removed from elective options
 - o 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,

Jeanne M. Osborne

Assistant Director, Academic Affairs

Jeanne M. Osborne

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		ANMLTEC 3130T	2
following:		ANMLTEC 3140T	4
<i>G</i> .		ANMLTEC 3800T	4
General Education categories		AEDECON 2105	3
Applied Sciences			
Business		Choose 3 credits from the following:	3
2 do meso		AGRCOMM 2367	
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION	1	ANMLTEC 1201.02T	0.5
ORIENTATION		ANNILTEC 1201.021	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
Total Non-Technical Studies	½ degree	Total Non-Technical Studies	
	total		
	credits		
	Credits		
Technical Studies		Technical Studies	†
Industry/Practical Experience		ANMLTEC 2510.02T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.021 (2 semesters 1 credit each) ANMLTEC 2582.02T (2 semesters 1 credit each)	2
5 (mm) 7 (max) [mm 2 et methomp]		ANMLTEC 2362.021 (2 schicsters 1 credit each) ANMLTEC 3191.02T	3
Other courses determined by program		ANMLTEC 3191.021 ANMLTEC 2202T	3
Onici courses determined by program		ANMLTEC 22021 ANMLTEC 3132T	2
		ANMLTEC 31321 ANMLTEC 3150T	3
		ANMLTEC 31301 ANMLTEC 3170T	3
		ANMLTEC 37/01 ANMLTEC 3200T	2
		ANMLTEC 32001 ANMLTEC 3402T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	5
	25		
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

Exploring Livestock Careers and Industry introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Beef First Year English Composition General Biology Business Mathematics or Technical Mathematics or Elementary Statistics College Orientation	.5 3 1 3 4 3 . <u>5</u>
Oral Expression in Agriculture Food Animal Resource Management I – Beef Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 <u>3</u> 16
Beef Industry Internship	3 3
Managerial Records and Analysis Food Animal Resource Management II – Beef Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management	3 1 2 4 2 3 15
Food Animal Resource Management II – Beef Principles of Ruminant Nutrition Livestock Genetic Improvement Beef Production and Management Principles of Farm Business Management From approved list	1 2 3 4 4 2 16
	attroduction to Beef and Small Ruminant Production food Animal Resource Management I – Beef first Year English Composition General Biology Business Mathematics or Technical Mathematics or Elementary Statistics College Orientation Oral Expression in Agriculture food Animal Resource Management I – Beef frinciples of Livestock Health frinciples of Food and Resource Economics Clective from approved list from approved list from approved list from Animal Resource Management II – Beef frinciples of Animal Nutrition frinciples of Animal Nutrition frinciples of Animal Nutrition frinciples of Animal Resource Management II – Beef frinciples of Animal Resource Management II – Beef frinciples of Ruminant Nutrition frinciples of Ruminant Management frinciples of Farm Business Management frinciples of Farm Business Management

^{*} 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	2
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 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 COLLEGE/CAREER ORIENTATION Total Non-Technical Studies	1 min.	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 GENSTDS 1201T ANMLTEC 1201.02T Total Non-Technical Studies	2 4 3 4 3 3 3 3
Total Non-Technical Studies	min. 1/2 degree total credits	Total Non-Technical Studies	33 34
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.02T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.02T (2 semesters 1 credit each)	2
		ANMLTEC 3191.02T	3
Other courses determined by program		ANMLTEC 2202T	3
		ANMLTEC 3132T	2 3
		ANMLTEC 3150T	23 3 3 2
		ANMLTEC 3200T	3
		ANMLTEC 3200T ANMLTEC 3402T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	5
Technical Studies Total	max 35	Technical Studies Total	32 30
DEGREE TOTAL	60-65	DEGREE TOTAL	6564
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LVBSRSW-AA BEF Catalog Year 2016-2017

Livestock Production and Management Beef Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T ANMLTEC 2202T *ANMLTEC 2510.02T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or 1145T or STAT 1350 GENSTDS 1201T	Exploring Livestock Careers and Industry Introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Beef First Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 3 1 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.02T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Beef Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 3 16
Summer Term *ANMLTEC 3191.02T	Beef Industry Internship	3 3
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.02T ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Beef Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 2 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.02T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3402T ANMLTEC 3800T TECHNICAL ELECTIVE	Food Animal Resource Management II – Beef Principles of Ruminant Nutrition Ruminant Feeds and Feeding Livestock Genetic Improvement Beef Production and Management Principles of Farm Business Management From approved list	1 23 3 4 4 2 1615
	Total Credits	65 64

^{*} 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:

Agricultural Issues in Contemporary Society	3
Small Business Management	3
Introduction to World Literature	3
Introduction to Soil Science and	3
and Introduction to Soil Science Lab	1
Society and Natural Resources	3
Introduction to General Chemistry	3
Hispanic Culture and Language in the Workplace	3
Basic and Practical Microbiology	4
Introduction to Comparative Religion	3
	Small Business Management Introduction to World Literature Introduction to Soil Science and and Introduction to Soil Science Lab Society and Natural Resources Introduction to General Chemistry Hispanic Culture and Language in the Workplace Basic and Practical Microbiology

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		ANMLTEC 3150T	3
following:		ANMLTEC 3140T	4
		ANMLTEC 3800T	4
General Education categories		AEDECON 2105	3
Applied Sciences			
Business		Choose 3 credits from the following:	3
		AGRCOMM 2367	
		BUSTEC 2241T COMPSTD 2301	
		COMPSTD 2301 COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION		ANMLTEC 1201.02T	0.5
Total Non-Technical Studies	min. ½ degree total credits	Total Non-Technical Studies	34
	credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.02T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.02T (2 semesters 1 credit each)	2
· · · · · · · · · · · · · · · · · · ·		ANMLTEC 3191.02T	3
Other courses determined by program		ANMLTEC 2202T	3
		ANMLTEC 3132T	3
		ANMLTEC 3170T	3
		ANMLTEC 3200T	2
		ANMLTEC 3402T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	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

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T ANMLTEC 2202T *ANMLTEC 2510.02T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or GENMATH 1145T GENSTDS 1201T	Exploring Livestock Careers and Industry Introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Beef First Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 3 1 3 4 3 . <u>.5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.02T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Beef Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 16
Summer Term *ANMLTEC 3191.02T	Beef Industry Internship	3 3
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.02T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Beef Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.02T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3402T ANMLTEC 3800T	Food Animal Resource Management II – Beef Ruminant Feeds and Feeding Livestock Genetic Improvement Beef Production and Management Principles of Farm Business Management	1 3 3 4 4 15

^{*} 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	2
	(Prereq: BUSTEC 1202T)	
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/	3	ENGLISH 1110.01	3
ORAL COMMUNICATION			
ENGLISH 1110.01			
MATHEMATICS/STATISTICS AND	3	GENMATH 1141T or 1145T or STAT 1350	3
LOGIC			
SOCIAL/BEHAVIORAL SCIENCES	3	AEDECON 2001	3
OR ARTS AND HUMANITIES			
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education	3	AGRCOMM 3130	3
categories (listed above) Total General	min. 15	Total General	16
Total General	111111. 13	Total General	10
Applied General Education		Applied General Education	
Courses determined by program from the		ANMLTEC 3130T	2
following:		ANMLTEC 3140T	4
C		ANMLTEC 3800T	4
General Education categories		AEDECON 2105	3
Applied Sciences		Choose 3 credits from the following:	
Business		AGRCOMM 2367	3
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION		ANMLTEC 1201.02T	0.5
Total Non-Toolseigal Charles		Total Non-Taskwiss Ctudies	22
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
	1/2 degree total		
	credits		
Technical Studies	Credits	Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.04T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.04T (2 semesters 1 credit each)	2
, , , , , , , , , , , , , , , , , , ,		ANMLTEC 3191.04T	3
Other courses determined by program		ANMLTEC 2202T	3
7 1 - 8		ANMLTEC 3132T	2
		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	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

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T ANMLTEC 2202T *ANMLTEC 2510.04T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or 1145T or STAT 1350 GENSTDS 1201T	Exploring Livestock Careers and Industry Introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Small Ruminants First Year English Composition General Biology Business Mathematics or Technical Mathematics or Elementary Statistics College Orientation	.5 3 1 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.04T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Small Ruminants Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 3 16
Summer Term *ANMLTEC 3191.04T	Small Ruminant Industry Internship	$\frac{3}{3}$
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.04T ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T	Managerial Records and Analysis Food Animal Resource Management II – Small Ruminants Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management	3 1 2 4 2 3 15
2 nd Year – Spring Semester *ANMLTEC 2582.04T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3404T ANMLTEC 3800T TECHNICAL ELECTIVE	Food Animal Resource Management II – Small Ruminants Principles of Ruminant Nutrition Livestock Genetic Improvement Small Ruminant Production and Management Principles of Farm Business Management From approved list	1 2 3 4 4 2 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	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 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 COLLEGE/CAREER ORIENTATION Total Non-Technical Studies	min. ½ degree total	ANMLTEC 3130T 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 GENSTDS 1201T ANMLTEC 1201.02T Total Non-Technical Studies	0.5 0.5 0.5
Tashnical Studies	credits	Tashnigal Studies	
Technical Studies Industry/Practical Experience		Technical Studies ANMLTEC 2510.04T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2510.041 (2 semesters 1 credit each) ANMLTEC 2582.04T (2 semesters 1 credit each)	$\frac{2}{2}$
5 (mm)- 5 (max) [mm 2 ci internsmp]		ANMLTEC 2382.041 (2 semesters 1 credit each) ANMLTEC 3191.04T	3
Other courses determined by program		ANMLTEC 3191.041 ANMLTEC 2202T	3
onici courses acterninica by program		ANMLTEC 22021 ANMLTEC 3132T	
		ANMLTEC 31321 ANMLTEC 3150T	3
		ANMLTEC 3130T	23 3 3 2
		ANMLTEC 3200T	2
		ANMLTEC 3404T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	5
Technical Studies Total	max 35	Technical Studies Total	32 30
DEGREE TOTAL	60-65	DEGREE TOTAL	65 64

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Livestock Production and Management Small Ruminant Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T ANMLTEC 2202T *ANMLTEC 2510.04T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or 1145T or STAT 1350 GENSTDS 1201T	Exploring Livestock Careers and Industry Introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Small Ruminants First Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 3 1 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.04T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Small Ruminants Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 16
Summer Term *ANMLTEC 3191.04T	Small Ruminant Industry Internship	$\frac{3}{3}$
2 nd Year – Autumn Semeste AEDECON 2105 *ANMLTEC 2582.04T ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Small Ruminants Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 2 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.04T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3404T ANMLTEC 3800T TECHNICAL ELECTIVE	Food Animal Resource Management II – Small Ruminants Principles of Ruminant Nutrition Ruminant Feeds and Feeding Livestock Genetic Improvement Small Ruminant Production and Management Principles of Farm Business Management From approved list Total Credits	1 23 3 4 4 2 1615
	Total Credits	<mark>65</mark> 64

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

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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:		ANMLTEC 3140T ANMLTEC 3150T	4 3
		ANMLTEC 3800T	4
General Education categories		AEDECON 2105	3
Applied Sciences		Choose 3 credits from the following:	2
Business		AGRCOMM 2367	3
		BUSTEC 2241T COMPSTD 2301	
		COMPSTD 2301 COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION	1	ANMLTEC 1201.02T	0.5
OKIENTATION		ANWILTEC 1201.021	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	34
Total from Teeminear Staties	½ degree	Total Total States	
	total		
	credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.04T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.04T (2 semesters 1 credit each)	2
		ANMLTEC 3191.04T	3
Other courses determined by program		ANMLTEC 2202T	3
		ANMLTEC 3132T	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	30
DEGREE TOTAL	60-65	DEGREE TOTAL	64

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Livestock Production and Management Small Ruminant Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T ANMLTEC 2202T *ANMLTEC 2510.04T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or GENMATH 1145T GENSTDS 1201T	Exploring Livestock Careers and Industry Introduction to Beef and Small Ruminant Production Food Animal Resource Management I – Small Ruminants First Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 3 1 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.04T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Small Ruminants Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 <u>3</u> 16
Summer Term *ANMLTEC 3191.04T	Small Ruminant Industry Internship	3 3
2 nd Year – Autumn Semeste AEDECON 2105 *ANMLTEC 2582.04T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Small Ruminants Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.04T ANMLTEC 3132T ANMLTEC 3150T ANMLTEC 3404T ANMLTEC 3800T	Food Animal Resource Management II – Small Ruminants Ruminant Feeds and Feeding Livestock Genetic Improvement Small Ruminant Production and Management Principles of Farm Business Management	1 3 3 4 4 4 15
	Total Credits	64

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

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Livestock Production and Management Small Ruminant Specialization Associate of Applied Science

Applied Gen Ed Elective options – minimum 3 credits required:

3
3
3
3
1
3
3
3
4
3

Technical Elective options – minimum 5 credits required:

BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
	(Prereq: BUSTEC 1202T)	
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		ANMLTEC 3130T	2
following:		ANMLTEC 3140T	4
		ANMLTEC 3800T	4
General Education categories Applied Sciences		AEDECON 2105	3
Business		Choose 3 credits from the following:	3
		AGRCOMM 2367	
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION	1	ANMLTEC 1201.02T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
Total Non-Technical Studies	½ degree	Total Non-Technical Statutes	
	total		
	credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.03T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.03T (2 semesters 1 credit each)	2
		ANMLTEC 3191.03T	3
		ANMLTEC 2603T	3
Other courses determined by program		ANMLTEC 3133T	2
		ANMLTEC 3150T	3
		ANMLTEC 3170T	3
		ANMLTEC 3200T	2
		ANMLTEC 3403T	4
		CRPSOIL 2228T	3 5
Technical Studies Total	mer: 25	Technical Electives (from approved list) Technical Studies Total	32
	max 35		65
DEGREE TOTAL	60-65	DEGREE TOTAL	05

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Livestock Production and Management Swine Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T *ANMLTEC 2510.03T ANMLTEC 2603T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or 1145T or STAT 1350 GENSTDS 1201T	Exploring Livestock Careers and Industry Food Animal Resource Management I – Swine Swine Production and Management I First-Year English Composition General Biology Business Mathematics or Technical Mathematics or Elementary Statistics College Orientation	.5 1 3 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.03T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Swine Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 <u>3</u> 16
Summer Term *ANMLTEC 3191.03T	Swine Industry Internship	$\frac{3}{3}$
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.03T ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T	Managerial Records and Analysis Food Animal Resource Management II – Swine Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management	3 1 2 4 2 3 15
2 nd Year – Spring Semester *ANMLTEC 2582.03T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3403T ANMLTEC 3800T TECHNICAL ELECTIVE	Food Animal Resource Management II – Swine Principles of Swine Nutrition Livestock Genetic Improvement Swine Production and Management II Principles of Farm Business Management From approved list	1 2 3 4 4 2 16
	Total Cred	its 65

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

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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/	3	ENGLISH 1110.01	3
ORAL COMMUNICATION			
ENGLISH 1110.01			
MATHEMATICS/STATISTICS AND	3	GENMATH 1141T or 1145T or STAT 1350	3
LOGIC			
SOCIAL/BEHAVIORAL SCIENCES	3	AEDECON 2001	3
OR ARTS AND HUMANITIES			
NATURAL SCIENCES	3	GENBIOL 1200T	4
From any of the General Education	3	AGRCOMM 3130	3
categories (listed above)			
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the		ANMLTEC 3130T	2 4
following:		ANMLTEC 3140T	4
		ANMLTEC 3150T	3
General Education categories		ANMLTEC 3800T	4
Applied Sciences		AEDECON 2105	3
Business			
		Choose 3 credits from the following:	3
		AGRCOMM 2367	
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION		ANMLTEC 1201.02T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33 34
	½ degree		
	total		
	credits		
The above and C4 or 12 or		The sheet of 1 (4-4)	
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.03T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.03T (2 semesters 1 credit each)	2
		ANMLTEC 3191.03T	3
Other courses determined by		ANMLTEC 2603T	3 23 3
Other courses determined by program		ANMLTEC 3133T	∠ 3
		ANMLTEC 2170T	5
	1	ANMLTEC 3170T	
		LANIMITEC 2200T	
		ANMLTEC 3200T	2
		ANMLTEC 3403T	4
		ANMLTEC 3403T CRPSOIL 2228T	4 3
Technical Studies Total	max 35	ANMLTEC 3403T	4

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Livestock Production and Management Swine Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T *ANMLTEC 2510.03T ANMLTEC 2603T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or 1145T or STAT 1350 GENSTDS 1201T	Exploring Livestock Careers and Industry Food Animal Resource Management I – Swine Swine Production and Management I First-Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 1 3 3 4 3 . <u>5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.03T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Swine Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 16
Summer Term *ANMLTEC 3191.03T	Swine Industry Internship	$\frac{3}{3}$
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.03T ANMLTEC 3130T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Swine Principles of Animal Nutrition Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 2 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.03T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3403T ANMLTEC 3800T TECHNICAL ELECTIVE	Food Animal Resource Management II – Swine Principles of Swine Nutrition Practical Swine Feeding Livestock Genetic Improvement Swine Production and Management II Principles of Farm Business Management From approved list	1 23 3 4 4 2 1615
	Total Credits	65 64

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

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Livestock Production and Management Swine Specialization Associate of Applied Science

Applied Gen Ed Elective options – minimum 3 credits required:

Agricultural Issues in Contemporary Society	3
Small Business Management	3
Introduction to World Literature	3
Introduction to Soil Science	3
and Introduction to Soil Science Lab	1
Society and Natural Resources	3
Introduction to General Chemistry	3
Hispanic Culture and Language in the Workplace	3
Basic and Practical Microbiology	4
Introduction to Comparative Religion	3
	Small Business Management Introduction to World Literature Introduction to Soil Science and Introduction to Soil Science Lab Society and Natural Resources Introduction to General Chemistry Hispanic Culture and Language in the Workplace Basic and Practical Microbiology

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		ANMLTEC 3150T	3
following:		ANMLTEC 3140T	4
C		ANMLTEC 3800T	4
General Education categories Applied Sciences		AEDECON 2105	3
Business		Choose 3 credits from the following:	3
		AGRCOMM 2367	
		BUSTEC 2241T	
		COMPSTD 2301	
		COMPSTD 2370	
		CRPSOIL 2300T AND 2301T	
		ENR 2300	
		GENCHEM 1100T	
		GENSSC 1181T	
		MICRBIO 4000	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION		ANMLTEC 1201.02T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	34
	½ degree		
	total		
	credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2510.03T (2 semesters 1 credit each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2582.03T (2 semesters 1 credit each)	2
		ANMLTEC 3191.03T	3
		ANMLTEC 2603T	3
Other courses determined by program		ANMLTEC 3133T	3
		ANMLTEC 3170T	3
		ANMLTEC 3200T	2
		ANMLTEC 3403T	4
		CRPSOIL 2228T	3
		Technical Electives (from approved list)	5
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	64

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Livestock Production and Management Swine Specialization Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.02T *ANMLTEC 2510.03T ANMLTEC 2603T ENGLISH 1110.01 GENBIOL 1200T GENMATH 1141T or GENMATH 1145T GENSTDS 1201T	Exploring Livestock Careers and Industry Food Animal Resource Management I – Swine Swine Production and Management I First-Year English Composition General Biology Business Mathematics or Technical Mathematics College Orientation	.5 1 3 3 4 3 . <u>.5</u>
1st Year – Spring Semester AGRCOMM 3130 *ANMLTEC 2510.03T ANMLTEC 3170T AEDECON 2001 APPLIED GEN ED TECHNICAL ELECTIVE	Oral Expression in Agriculture Food Animal Resource Management I – Swine Principles of Livestock Health Principles of Food and Resource Economics Elective from approved list From approved list	3 1 3 3 3 3 3 16
Summer Term *ANMLTEC 3191.03T	Swine Industry Internship	$\frac{3}{3}$
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2582.03T ANMLTEC 3140T ANMLTEC 3200T CRPSOIL 2228T TECHNICAL ELECTIVE	Managerial Records and Analysis Food Animal Resource Management II – Swine Animal Anatomy and Physiology Livestock Selection and Evaluation Manure Management From approved list	3 1 4 2 3 2 15
2 nd Year – Spring Semester *ANMLTEC 2582.03T ANMLTEC 3133T ANMLTEC 3150T ANMLTEC 3403T ANMLTEC 3800T	Food Animal Resource Management II – Swine Practical Swine Feeding Livestock Genetic Improvement Swine Production and Management II Principles of Farm Business Management	1 3 3 4 4 16

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

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Total Credits

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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 or	otions – minimum 5 credits required:	
BUSTEC 1202T	Software Applications	1
BUSTEC 2207T	Problem Solving with Spreadsheets and Databases	2
	(Prereg: BUSTEC 1202T)	
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	nt
Non-Technical Studies		Non-Technical Studies	
General Education	Sem Cr	General Education	Sem Cr.
Category		Course	
ENGLISH COMPOSITION/		ENGLISH 1110.01	3
ORAL COMMUNICATION			
ENGLISH 1110.01	3		
MATHEMATICS/STATISTICS AND	3	STAT 1350 or GENMATH 1141T or 1145T	3
LOGIC		177777	
SOCIAL/BEHAVIORAL SCIENCES	3	AEDECON 2001	3
OR ARTS AND HUMANITIES			
NATURAL SCIENCES	3	GENBIO 1200T	4
From any of the General Education	3	GE11,B10 12001	
categories (listed above)	3	ANMLTEC 3140T	4
Categories (instear above)		ANVILLEC 31401	4
Total General	min. 15	Total General	17
TOWN GOMEN	111111111111111111111111111111111111111	Z VIIII SVALVA WA	
Applied General Education		Applied General Education	
Courses determined by program from the		AEDECON 2105	3
following:		ANMLTEC 3130T	2
č		ANMLTEC 3157T	3
General Education categories		Choose 3 credits from the following courses:	3
Applied Sciences		BUSTEC 1202T and 2207T	
Business		BUSTEC 2244T	
		BUSTEC 2247T	
		BUSTEC 2249T	
		*CRPSOIL 2300T	
		Choose 1 from the following 3 courses:	3
		AGRCOMM 3130	
		*CRPSOIL 2300T	
GOLL EGELGA BEEE		GENSSC 1181T	0.7
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION		ANMLTEC 1201.07T	0.5
Total Non-Technical Studies	min	Total Non-Technical Studies	32
Total Non-Technical Studies	min. ½ degree		34
	total		
	credits		
	22 34143		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2787T (2 semesters at 2 credits each)	4
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 3191.07T	2
Other courses determined by program		ANMLTEC 2797T	1
		ANMLTEC 3137T	2
		ANMLTEC 3167T	4
		ANMLTEC 3177T	4
		ANMLTEC 3207T	2
		ANMLTEC 3407T	3
		ANMLTEC 3800T or 3887T	4
		Technical Electives (from list)	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.

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Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.07T ANMLTEC 3167T ANMLTEC 3207T GENBIOL 1200T STAT 1350 or GENMATH 1141T or GENMATH 1145T GENSTDS 1201T	Exploring Dairy Careers and Industry Dairy Cattle Milking and Reproductive Management Dairy Cattle Evaluation and Herd Records General Biology Elementary Statistics or Business Mathematics or Technical Mathematics College Orientation	0.5 4 2 4 3
1st Year – Spring Semester ANMLTEC 3140T ANMLTEC 3177T AEDECON 2001 ENGLISH 1110.01 + ELECTIVE	Animal Anatomy and Physiology Dairy Cattle Health Management Principles of Food and Resource Economics First-Year English Composition Technical or Applied Gen Ed (From approve elective lists)	4 4 3 3 3 3 17
Summer Term *ANMLTEC 3191.07T	Dairy Industry Internship	$\frac{2}{2}$
2 nd Year – Autumn Semester AEDECON 2105 *ANMLTEC 2787T ANMLTEC 3130T ANMLTEC 3137T ANMLTEC 3407T + ELECTIVE	Managerial Records and Analysis Applied Dairy Herd Practices and Management Principles of Animal Nutrition Dairy Cattle Feeding Management Dairy Cattle Facilities, Environment, and Equipment Technical or Applied Gen Ed (From approve elective lists)	3 2 2 2 2 3 3 3 15
2 nd Year – Spring Semester *ANMLTEC 2787T ANMLTEC 2797T ANMLTEC 3157T ANMLTEC 3800T or 3887T + ELECTIVE	Applied Dairy Herd Practices and Management Dairy Industry Seminar and Experience Dairy Cattle Genetic Improvement Principles of Farm Business Management or Integrated Dairy Farm Business Management Technical or Applied Gen Ed (From approve elective lists)	2 1 3 4 6 16

Required Electives:

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

Total Credits

64

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

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Technical Elective optio	ns – 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 Educat	tion 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
	credit hours from the following courses:	
BUSTEC 1202T	Software Applications (1)	3
and 2207T	Problem Solving with Spreadsheets and Databases (2)	
DIJOTEC 2244T	II D	2

Human Resource Management and Leadership

Fundamentals of Business Finance

Introduction to Soil Science

Business Law

BUSTEC 2244T

BUSTEC 2247T

BUSTEC 2249T

CRPSOIL 2300T

3

3

3

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/		ENGLISH 1110.01	3
ORAL COMMUNICATION			
ENGLISH 1110.01	3		
MATHEMATICS/STATISTICS AND	3	STAT 1350 or GENMATH 1141T or 1145T	3
LOGIC			
SOCIAL/BEHAVIORAL SCIENCES	3	AEDECON 2001	3
OR ARTS AND HUMANITIES			
NATURAL SCIENCES	3	GENBIO 1200T	4
From any of the General Education	3	GENERO 12001	7
categories (listed above)	3	ANMLTEC 3140T	4
categories (listeu above)		ANVIETEC 51401	7
Total General	min. 15	Total General	17
20002	111111 10	2000 0010242	
Applied General Education		Applied General Education	
Courses determined by program from the		AEDECON 2105	3
following:		ANMLTEC 3130T	<mark>2</mark>
C		ANMLTEC 3157T	3
General Education categories		CRPSOIL 2300T	3 2 3 3 3
Applied Sciences		GENSSC 1181T	<mark>3</mark>
Business			
		Choose 3 credits from the following courses:	3
		BUSTEC 1202T and 2207T	
		BUSTEC 2244T	
		BUSTEC 2247T	
		BUSTEC 2249T	
		*CRPSOIL 2300T Choose 1 from the following 3 courses:	2
		AGRCOMM 3130	3
		*CRPSOIL 2300T	
		GENSSC 1181T	
COLLEGE/CAREER	1	GENSTDS 1201T	0.5
ORIENTATION	1	ANMLTEC 1201.07T	0.5
ORIENTITION		ANNUALE IZONOTI	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	32 33
	½ degree		
	total		
	credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2787T (2 semesters at 21 credits each)	<mark>42</mark>
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 3191.07T	2
Other courses determined by program		ANMLTEC 2797T	1
		ANMLTEC 3137T	2 3
		ANMLTEC 3167T	4
		ANMLTEC 3177T	4
		ANMLTEC 3207T	2
		ANMLTEC 3407T	3
		ANMLTEC 3800T or 3887T	4
Tashmisal Charles Takal	25	Technical Electives (from list)	6
Technical Studies Total	max 35	Technical Studies Total	32 31
* Con only be used in one setagony. Gener	60-65	Applied Congress Education, or Technical elective	64

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

CURRENT Proposed Changes Highlighted

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Dairy Cattle Production and Management Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester ANMLTEC 1201.07T ANMLTEC 3167T ANMLTEC 3207T GENBIOL 1200T STAT 1350 or GENMATH 1141T or GENMATH 1145T GENSTDS 1201T	Exploring Dairy Careers and Industry Dairy Cattle Milking and Reproductive Management Dairy Cattle Evaluation and Herd Records General Biology Elementary Statistics or-Business Mathematics or Technical Mathematics College Orientation	0.5 4 2 4 3 0.5 14
1st Year – Spring Semester ANMLTEC 3140T ANMLTEC 3177T AEDECON 2001 ENGLISH 1110.01 + ELECTIVE	Animal Anatomy and Physiology Dairy Cattle Health Management Principles of Food and Resource Economics First-Year English Composition Technical or Applied Gen Ed (From approve elective lists)	4 4 3 3 3 17
Summer Term *ANMLTEC 3191.07T	Dairy Industry Internship	$\frac{2}{2}$
2 nd Year – Autumn Semeste AEDECON 2105 *ANMLTEC 2787T ANMLTEC 3130T ANMLTEC 3137T ANMLTEC 3407T GENSSC 1181T + ELECTIVE	Managerial Records and Analysis Applied Dairy Herd Practices and Management Principles of Animal Nutrition Dairy Cattle Feeding Management Dairy Cattle Facilities, Environment, and Equipment Hispanic Culture and Language in the Workplace Technical or Applied Gen Ed (From approve elective lists)	3 21 2 23 3 3 4516
2 nd Year – Spring Semester *ANMLTEC 2787T ANMLTEC 2797T ANMLTEC 3157T ANMLTEC 3800T or 3887T CRPSOIL 2300T + ELECTIVE	Applied Dairy Herd Practices and Management Dairy Industry Seminar and Experience Dairy Cattle Genetic Improvement Principles of Farm Business Management or Integrated Dairy Farm Business Management Introduction to Soil Science Technical or Applied Gen Ed (From approve elective lists)	21 1 3 4 3 63 1615

Required Electives:

Total Credits

64

⁺ 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

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ANMLTEC 2400T ANMLTEC 2707T Dairy Cattle Presentation BIOTECH 2218T General and Applied Entomology 3 **BUSTEC 1202T **BUSTEC 1202T **BUSTEC 2207T BUSTEC 2232T BUSTEC 2232T BUSTEC 2232T BUSTEC 2232T BUSTEC 2232T BUSTEC 2244T **BUSTEC 2244T **BUSTEC 2244T **BUSTEC 2244T Business Law BUSTEC 2248T BUSTEC 2248T BUSTEC 2248T **BUSTEC 2249T CRPSOIL 2200T CRPSOIL 2200T CRPSOIL 2201T CRPSOIL 2208T CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2616T Sill Engine Basics Agricultural Equipment Operation and Maintenance ENGTECH 2016T Sill Engine Diagnosis and Repair Sill Engine Diagnosis and Repair Sill Engine Diagnosis and Repair Sill Engine Dissens Sill Engine Systems	Technical Elective options – 6 credit hours required:					
BIOTECH 2218T BIOTECH 2219T Pesticides and Their Use **BUSTEC 1202T Software Applications **BUSTEC 2207T Problem Solving with Spreadsheets and Databases BUSTEC 2232T BUSTEC 2232T BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership **BUSTEC 2244T Business Law BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2249T CRPSOIL 2200T CRPSOIL 2200T Introduction to Sustainable Agriculture CRPSOIL 2201T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management #CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T Forage Crops CRPSOIL 2422T Principles of Weed Control CRPSOIL 2580T ENGTECH 2011T Small Engine Basics Law Salva Tenhology ENGTECH 2040T Engine Diagnosis and Repair	ANMLTEC 2400T	Sustainable Animal Systems and Marketing 3				
**BUSTEC 1202T **BUSTEC 2207T BUSTEC 2232T BUSTEC 2232T BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership **BUSTEC 2244T Business Law 3BUSTEC 2248T **BUSTEC 2249T BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2201T CRPSOIL 201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2265T # CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2015T Small Engine Basics 4 ENGTECH 2016T Elidage, Planting, Harvesting, and Storage Equipment Sustaine Diagnosis and Repair	ANMLTEC 2707T	Dairy Cattle Presentation 1				
**BUSTEC 1202T Problem Solving with Spreadsheets and Databases BUSTEC 2232T Personal Selling BUSTEC 2239T Real Estate Dynamics **BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership **BUSTEC 2244T Business Law BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T Introduction to Sustainable Agriculture CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T Sustainable Agriculture Methods CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management # CRPSOIL 2300T Introduction to Soil Science CRPSOIL 2301T Introduction to Soil Science CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T Forage Crops CRPSOIL 2422T Principles of Weed Control CRPSOIL 2422T Principles of Weed Control CRPSOIL 2580T Soil Fertility and Fertilizers ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment ENGTECH 2240T Welding Technology ENGTECH 2324T Engine Diagnosis and Repair	BIOTECH 2218T	General and Applied Entomology 3				
**BUSTEC 1202T **BUSTEC 2207T Problem Solving with Spreadsheets and Databases 2 BUSTEC 2232T BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership **BUSTEC 2244T Business Law BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2248T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2200T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T Sustainable Agriculture Methods Interpretated Pest Management CRPSOIL 2265T Integrated Pest Management CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 25807 Soil Fertility and Fertilizers Soil Fertility and Fertilizers Soil Fertility and Fertilizers ENGTECH 2011T Small Engine Basics 4 ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T ENGTECH 2240T Welding Technology ENGTECH 2324T Engine Diagnosis and Repair Diesel Engine Systems	BIOTECH 2219T					
**BUSTEC 2207T BUSTEC 2232T BUSTEC 2232T BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership 3 **BUSTEC 2244T Business Law 3 BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2200T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2205T Integrated Pest Management CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T Crain and Oilseed Crops CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T Soil Fertility and Fertilizers ENGTECH 2016T ENGTECH 2016T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems 3 2 BUSTEC 2229T Ananagement and Leadership 3 Sustainable Pagiculture 3 Sustainable Agriculture 4 Sustainable Agriculture 5 Sustainable Agriculture 6 Sustainable Agriculture 7 Sustainable Agriculture 8 Sustainable Agriculture 9 Sus	**BUSTEC 1202T	Software Applications 1				
BUSTEC 2232T BUSTEC 2239T Real Estate Dynamics **BUSTEC 2244T Human Resource Management and Leadership **BUSTEC 2244T Business Law 3 BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2201T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2205T Integrated Pest Management CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 231T CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 261T Small Engine Basics LAGRICH 2016T ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems	**BUSTEC 2207T	Problem Solving with Spreadsheets and Databases 2				
##BUSTEC 2239T #*BUSTEC 2244T #Uman Resource Management and Leadership ##BUSTEC 2244T #Uman Resource Management and Leadership ##BUSTEC 2248T ##BUSTEC 2248T ##BUSTEC 2249T ##BUSTEC 2248T ##BUSTEC 2249T ##BUSTEC 2240T ##BUSTEC 2249T ##BUSTEC 2240T ##BUSTEC 2249T ##BUSTEC 2240T ##BUSTEC 2249T ##BUSTEC 2324T ##BUSTEC 2249T ###BUSTEC 2249T ###BUSTEC 2249T ###BUSTEC 2249T ####################################	BUSTEC 2232T	Personal Selling 3				
**BUSTEC 2244T **BUSTEC 2247T Business Law 3 BUSTEC 2248T **BUSTEC 2249T Fundamentals of Business Finance **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2265T # CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2011T Small Engine Basics ENGTECH 2016T Fillage, Planting, Harvesting, and Storage Equipment ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems 3 3 3 3 3 3 3 3 3 3 3 3 3	BUSTEC 2239T	Real Estate Dynamics 2				
**BUSTEC 2247T BUSTEC 2248T Introduction to Cooperatives **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2201T Sustainable Cropping Systems and Marketing CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T CRPSOIL 2265T Integrated Pest Management CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T CRPSOIL 2580T ENGTECH 2015T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2240T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Business Law 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Human Resource Management and Leadership 3				
BUSTEC 2248T **BUSTEC 2249T Fundamentals of Business Finance CRPSOIL 2200T CRPSOIL 2201T CRPSOIL 2210T CRPSOIL 2210T CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2265T Integrated Pest Management CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2421T CRPSOIL 2422T CRPSOIL 2421T CRPSOIL 2422T CRPSOIL 2421T CRPSOIL 2422T CRPSOIL 2421T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2011T Small Engine Basics 4 ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment ENGTECH 2324T Engine Diagnosis and Repair Diesel Engine Systems	**BUSTEC 2247T	Business Law 3				
**BUSTEC 2249T CRPSOIL 2200T Introduction to Sustainable Agriculture CRPSOIL 2201T CRPSOIL 2210T CRPSOIL 2210T CRPSOIL 2210T Sustainable Agriculture Methods Introduction to Sustainable Agriculture CRPSOIL 2228T CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management Introduction to Soil Science CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2580T CRPSOIL 2580T CRPSOIL 2580T ENGTECH 2011T Small Engine Basics ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems		Introduction to Cooperatives 2				
CRPSOIL 2200T CRPSOIL 2201T Sustainable Cropping Systems and Marketing 3 CRPSOIL 2210T CRPSOIL 2228T CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management Introduction to Soil Science CRPSOIL 2300T CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2240T ENGTECH 2240T ENGTECH 2240T ENGTECH 2240T ENGTECH 2240T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Introduction to Sustainable Agriculture Endethods Introduction to Sustainable Agriculture Sustainable Agriculture Endethods Introduction to Soil Science Introduction to Soil Science Soil Science Introduction to Soil Science Int	**BUSTEC 2249T	Fundamentals of Business Finance 3				
CRPSOIL 2201T CRPSOIL 2210T Sustainable Cropping Systems and Marketing CRPSOIL 2210T Sustainable Agriculture Methods 1 CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management 2 # CRPSOIL 2300T Introduction to Soil Science CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Sustainable Cropping Systems and Marketing 1 Sustainable Agriculture Methods 1 Sustainable Agriculture Methods 1 Sustainable Agriculture Methods 1 Sustainable Agriculture Methods 1 Soulterate Methods 1 Special Science 2 Torage Crops 3 Soil Fertility and Fertilizers 3 Soil Fertility and Fertilizers 4 ENGTECH 2015T Agricultural Equipment Operation and Maintenance 2 ENGTECH 2240T Engine Diagnosis and Repair 3 Diesel Engine Systems		Introduction to Sustainable Agriculture 2				
CRPSOIL 2210T CRPSOIL 2228T Manure Management CRPSOIL 2265T Integrated Pest Management # CRPSOIL 2300T CRPSOIL 2301T CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T CRPSOIL 2412T CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2011T ENGTECH 2016T ENGTECH 2240T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T Sustainable Agriculture Methods Introduction to Soil Science Introduction to Soil Science Soil Science Laboratory Introduction to Soil Science Laboratory Science Laboratory Introduction to Soil Science Laboratory Screpsoil Science Laboratory Introduction to Soil Science Soil Science Laboratory Introduction to Soil Science Introduct		Sustainable Cropping Systems and Marketing 3				
CRPSOIL 2228T CRPSOIL 2265T Integrated Pest Management # CRPSOIL 2300T Introduction to Soil Science CRPSOIL 2301T CRPSOIL 2411T CRPSOIL 2411T Grain and Oilseed Crops CRPSOIL 242T CRPSOIL 242T CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T Manure Management 2 Management 2 Introduction to Soil Science 3 Soil Science Laboratory 1 Crain and Oilseed Crops 3 Soil Forage Crops 3 Soil Fertility and Fertilizers 4 ENGTECH 2011T Small Engine Basics 4 ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment Sugliage, Planting, Harvesting, Automatical Equipment Sugliage,		Sustainable Agriculture Methods 1				
CRPSOIL 2265T # CRPSOIL 2300T Introduction to Soil Science CRPSOIL 2301T Introduction to Soil Science Laboratory Introduction to Soil Science	CRPSOIL 2228T	Manure Management 3				
# CRPSOIL 2300T CRPSOIL 2301T Introduction to Soil Science Laboratory Introduction to Soil Science Laboratory Introduction to Soil Science Introduction to Soil Science Laboratory Introdu		Integrated Pest Management 2				
CRPSOIL 2301T CRPSOIL 2411T Grain and Oilseed Crops 3 CRPSOIL 2412T Forage Crops CRPSOIL 2422T Principles of Weed Control CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T ENGTECH 2338T Introduction to Soil Science Laboratory 1 Introduction to Soil Science Laboratory 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Introduction to Soil Science 3				
CRPSOIL 2411T CRPSOIL 2412T Forage Crops CRPSOIL 2422T Principles of Weed Control CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T Grain and Oilseed Crops 3 Soil Fertility and Fertilizers 3 Soil Fertility and Fertilizers 4 Engricultural Equipment Operation and Maintenance 2 ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T Engine Diagnosis and Repair Diesel Engine Systems 3		Introduction to Soil Science Laboratory				
CRPSOIL 2412T CRPSOIL 2422T Principles of Weed Control CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T Forage Crops Principles of Weed Control Small Engine Basics 4 Agricultural Equipment Operation and Maintenance 2 ENGTECH 2016T ENGTECH 2240T Engine Diagnosis and Repair Small Engine Basics 4 ENGTECH 2016T ENGTECH 2016T ENGTECH 2016T Urliage, Planting, Harvesting, and Storage Equipment Small Engine Diagnosis and Repair Small Engine Diagnosis and Repair Small Engine Systems	CRPSOIL 2411T	Grain and Oilseed Crops 3				
CRPSOIL 2422T CRPSOIL 2580T ENGTECH 2011T ENGTECH 2015T ENGTECH 2016T ENGTECH 2240T ENGTECH 2240T ENGTECH 2240T ENGTECH 2324T ENGTECH 2338T ENGTECH 2338T Principles of Weed Control 3 Soil Fertility and Fertilizers 4 Agricultural Equipment Operation and Maintenance 2 Tillage, Planting, Harvesting, and Storage Equipment 3 Welding Technology Engine Diagnosis and Repair Diesel Engine Systems		Forage Crops 3				
CRPSOIL 2580T ENGTECH 2011T Small Engine Basics ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment Welding Technology ENGTECH 2324T ENGTECH 2338T Diesel Engine Systems 3 3 4 4 4 4 4 5 5 6 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9		Principles of Weed Control 3				
ENGTECH 2011T ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment Welding Technology ENGTECH 2324T ENGTECH 2338T ENGTECH 2338T Small Engine Basics 4 Agricultural Equipment Operation and Maintenance 2 Tillage, Planting, Harvesting, and Storage Equipment 3 Engine Diagnosis and Repair 3 Diesel Engine Systems		Soil Fertility and Fertilizers 3				
ENGTECH 2015T Agricultural Equipment Operation and Maintenance ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment ENGTECH 2240T Welding Technology ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems		Small Engine Basics 4				
ENGTECH 2016T Tillage, Planting, Harvesting, and Storage Equipment ENGTECH 2240T Welding Technology ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems 3 3		Agricultural Equipment Operation and Maintenance 2				
ENGTECH 2240T Welding Technology ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems 3		Tillage, Planting, Harvesting, and Storage Equipment 3				
ENGTECH 2324T Engine Diagnosis and Repair ENGTECH 2338T Diesel Engine Systems 3		Welding Technology 3				
ENGTECH 2338T Diesel Engine Systems 3		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	<mark>3</mark>
	GENSSC 1181T	Hispanic Culture and Language in the Workplace	<mark>3</mark>
	Group 2 - Choose 3	credit hours from the following courses:	
	BUSTEC 1202T	Software Applications (1)	<mark>3</mark>
	and 2207T	Problem Solving with Spreadsheets and Databases (2)	
	BUSTEC 2244T	Human Resource Management and Leadership	3
	BUSTEC 2247T	Business Law	<mark>3</mark>
	BUSTEC 2249T	Fundamentals of Business Finance	<mark>3</mark>
	# CRPSOIL 2300T	Introduction to Soil Science	<mark>3</mark>

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

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Dairy Cattle Production and Management Associate of Applied Science

Course	<u>Title</u>	Credits
1st Year – Autumn Semester		
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	Business Mathematics	3
or GENMATH 1145T	or Technical Mathematics	
GENSTDS 1201T	College Orientation	<u>0.5</u>
		14
1st Year – Spring Semester		
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	<u>3</u>
	(From approve elective lists)	17
Summer Term		
*ANMLTEC 3191.07T	Dairy Industry Internship	<u>2</u> 2
		2
2 nd Year – Autumn Semester	r	
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	<u>3</u>
	(From approve elective lists)	16
2 nd Year – Spring Semester		
*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	Principles of Farm Business Management	4
or 3887T	or Integrated Dairy Farm Business Management	
CRPSOIL 2300T	Introduction to Soil Science	3
+ ELECTIVE	Technical or Applied Gen Ed	<u>3</u>
	(From approve elective lists)	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.

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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	3
	(Prereq: CRPSOIL 2200T)	
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	3
	(Prereq: CRPSOIL 2200T)	
CRPSOIL 2210T	Sustainable Agriculture Methods	1
	(Prereq: CRPSOIL 2200T)	
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	3
	(Prereq: ENGTECH 2011T)	
	·	

^{**} 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/		ENGLISH 1110.01	3
ORAL COMMUNICATION	3		
MATHEMATICS/STATISTICS AND LOGIC	3	GENMATH 1141T or 1145T or STAT 1350	3
SOCIAL/BEHAVIORAL SCIENCES or	3	AEDECON 2001	3
ARTS AND HUMANITIES			
NATURAL SCIENCES		GENBIOL 1200T	4
From any of the General Education	3	AGRCOMM 3130	3
categories (listed above)			
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the		ANMLTEC 3130T	2
following:		ANMLTEC 3140T	4
		BUSTEC 2241T	3
General Education categories		AEDECON 2105	3
Applied Sciences		BUSTEC 1202T	1
Business		ELECTIVE (select 1):	3
		GENSSC 1181T, CRPSOIL 2300T and 2301T,	
		AGRCOMM 2367, RELSTDS 2370,	
		COMPSTD 2301, ENR 2300, ENR 2367;	
		MICRBIO 4000, GENCHEM 1100T	
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.01T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
	½ degree		
	total credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2189.01T (2 @ 1 cr. each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2190.01T	1
		ANMLTEC 3191.01T	3
		ANMLTEC 2201T	3
		ANMLTEC 3101T	4
		ANMLTEC 3131T	2
		ANMLTEC 3151T	3
		ANMLTEC 3171T	3
		ANMLTEC 3201T	2
		ENGTECH 2015T	2
Other courses determined by program		Technical Electives (5 cr. hrs. needed)	
		Choose from:	
		ANMLTEC 2801T	3
		ANMLTEC 2811T	3
		ANMLTEC 3161T	2
		CRPSOIL 2412T	3
		BUSTEC 2232T	3
Technical Studies Total	max 35	Technical Studies Total	30
DEGREE TOTAL	60-65	DEGREE TOTAL	63
DEGKEE TOTAL	00-05	DEGKEE TOTAL	0.5

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Horse Production and Management Associate of Applied Science

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

TOTAL 63

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$Technical \ Elective \ options-5 \ credit \ hours \ required$

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/		ENGLISH 1110.01	3
ORAL COMMUNICATION	3		
MATHEMATICS/STATISTICS AND	3	GENMATH 1141T or 1145T or STAT	3
LOGIC		1350	
SOCIAL/BEHAVIORAL SCIENCES or	3	AEDECON 2001	3
ARTS AND HUMANITIES			
NATURAL SCIENCES		GENBIOL 1200T	4
		32. 32. 32. 32. 32. 32. 32. 32. 32. 32.	
From any of the General Education	3	AGRCOMM 3130	3
categories (listed above)			
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the		ANMLTEC 3130T	
following:		ANMLTEC 3140T	
		BUSTEC 2241T	3
General Education categories		AEDECON 2105	3
Applied Sciences		BUSTEC 1202T	3 1 3 3
Business		GENSSC 1181T	3
		ELECTIVE (select 1):	3
		BUSTEC 1202T, GENSSC 1181T, CRPSOIL	
		2300T and 2301T, AGRCOMM 2367, RELSTDS 2370, COMPSTD 2301, ENR 2300,	
		ENR 2367; MICRBIO 4000, GENCHEM	
		1100T	
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
COLLEGE/CIRCLER ORIE!(IIIIO)(1	ANMLTEC 1201.01T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
	½ degree		
	total credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2189.01T (2 @ 1 cr. each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2190.01T	1
		ANMLTEC 3191.01T	3
		ANMLTEC 2201T	3
		ANMLTEC 3101T	4
		ANMLTEC 3131T	2 3
		ANMLTEC 3151T	3
		ANMLTEC 3171T ANMLTEC 3201T	3 2
		ENGTECH 2015T	$\frac{2}{2}$
		ENGIECH 20131	2
Other courses determined by program		Technical Electives (5 cr. hrs. needed)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Choose from:	
		ANMLTEC 2801T	3
		ANMLTEC 2811T	3
		ANMLTEC 3161T	2
		CRPSOIL 2412T	3
		BUSTEC 2232T	3
Technical Studies Total	max 35	Technical Studies Total	30 31
DEGREE TOTAL	60-65	DEGREE TOTAL	63 64

CURRENT Proposed Changes Highlighted

Catalog Year **Associate of Applied Science** 2016-2017 Course **Title Credits** 1st Year-Autumn Semester **ANMLTEC 1201.01T Exploring Equine Careers and Industry** 0.5 Horse Practicum (2 semesters at 1 credit each) **ANMLTEC 2189.01T** 1 Introduction to Horse Science 3 **ANMLTEC 2201T** 1 BUSTEC 1202T Software Applications First-Year English Composition 3 **ENGLISH 1110.01 GENBIOL 1200T** General Biology 4 College Orientation **GENSTDS 1201T** 0.5 From approved list (riding 5 total credits required) TECHNICAL ELECTIVE or GENMATH 1141T/1145T or Business Mathematics / Technical Mathematics or STAT 1350 or Elementary Statistics (non-riding) 2/3 14-15-16 1st Year-Spring Semester 3 AGRCOMM 3130 Oral Expression in Agriculture Horse Practicum (2 semesters at 1 credit each) 1 **ANMLTEC 2189.01T** 3 ANMLTEC 3151T Horse Breeding and Selection 2 ANMLTEC 3201T Horse Judging and Evaluation 3 AEDECON 2001 Principles of Food and Resource Economics TECHNICAL ELECTIVE From approved list (non-riding) total credits required) or GENMATH 1141T/1145T or Business Mathematics / Technical Mathematics or STAT 1350 or Elementary Statistics (riding) **2/**3 **14-**15 **Summer Term ANMLTEC 3191.01T** Equine Industry Internship Experience <u>3</u> 3 2nd Year-Autumn Semester **AEDECON 2105** 3 Managerial Records and Analysis **ANMLTEC 2190.01T** Leadership in Equine Operations Management 1 Equine Marketing and Facility Management 4 ANMLTEC 3101T **Principles of Animal Nutrition** 2 2 3 ANMLTEC 3130T ENGTECH 2015T Agricultural Equipment Operation and Maintenance Hispanic Culture and Language in the Workplace GENSSC 1181T From approved list (riding 5 total credits required) TECHNICAL ELECTIVE or APPLIED GEN ED ELEC or Elective Choose 1 from the following: (non-riding)

Horse Production and Management

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2 nd Year-Spring Semester		
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	From approved list (non-riding) total credits required)	
or APPLIED GEN ED ELEC	or Elective - Choose 1 from the following: (riding)	<mark>2/</mark> 3
	AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370,	15 <mark>-16</mark>
	CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367, GENCHEM 1100T, GENSSC 1181T, BUSTEC 1202T, MICRBIO 4000	
ANMLTEC 3171T BUSTEC 2241T TECHNICAL ELECTIVE	Horse Health and Disease Small Business Management From approved list (non-riding) 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,	3 3 <u>2/3</u>

AGRCOMM 2367, COMPSTD 2301, RELSTDS 2370.

CRPSOIL 2300T and 2301T, ENR 2300, ENR 2367
GENCHEM 1100T, GENSSC 1181T, BUSTEC 1202T, MICRBIO 4000

TOTAL 6364

15<mark>-16</mark>

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CURRENT Proposed Changes Highlighted

$Technical \ Elective \ options-5 \ credit \ hours \ required$

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/		ENGLISH 1110.01	3
ORAL COMMUNICATION	3		
MATHEMATICS/STATISTICS AND	3	GENMATH 1141T or 1145T	3
LOGIC			
SOCIAL/BEHAVIORAL SCIENCES or	3	AEDECON 2001	3
ARTS AND HUMANITIES			
NATURAL SCIENCES		GENBIOL 1200T	4
NATURAL SCIENCES		GENDIOL 12001	1
From any of the General Education	3	AGRCOMM 3130	3
categories (listed above)			
Total General	min. 15	Total General	16
Applied General Education		Applied General Education	
Courses determined by program from the		ANMLTEC 3140T	4
following:		BUSTEC 2241T	3
		AEDECON 2105	3
General Education categories		GENSSC 1181T	3
Applied Sciences		ELECTIVE (select 1):	3
Business		BUSTEC 1202T, CRPSOIL 2300T and 2301T,	
		AGRCOMM 2367, RELSTDS 2370,	
		COMPSTD 2301, ENR 2300, ENR 2367;	
		MICRBIO 4000, GENCHEM 1100T	
COLLEGE/CAREER ORIENTATION	1	GENSTDS 1201T	0.5
		ANMLTEC 1201.01T	0.5
Total Non-Technical Studies	min.	Total Non-Technical Studies	33
	½ degree		
	total credits		
Technical Studies		Technical Studies	
Industry/Practical Experience		ANMLTEC 2189.01T (2 @ 1 cr. each)	2
3 (min)- 9 (max) [min 2 cr internship]		ANMLTEC 2190.01T	1
		ANMLTEC 3191.01T	3
		ANMLTEC 2201T	3
		ANMLTEC 3101T	4
		ANMLTEC 3131T	3
		ANMLTEC 3151T	3
		ANMLTEC 3171T	3
		ANMLTEC 3201T	2
		ENGTECH 2015T	2
Other courses determined by program		Technical Electives (5 cr. hrs. needed)	
		Choose from:	
		ANMLTEC 2801T	3
		ANMLTEC 2811T	3
		ANMLTEC 3161T	2
		CRPSOIL 2412T	3
	1		
		BUSTEC 2232T	3
Technical Studies Total	max 35	BUSTEC 2232T Technical Studies Total	3 31

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Horse Production and Management Associate of Applied Science

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