

**COLLEGE OF AGRICULTURE AND LIFE SCIENCES
BACHELOR OF SCIENCE IN ANIMAL AND POULTRY SCIENCES**

**Major in Animal and Poultry Sciences
For Students Graduating in Calendar Year 2019**

Name: _____

Student ID # _____

CURRICULUM FOR LIBERAL EDUCATION

Course & Number	Title	Credits
MATH 1014, or *1025 or 1026 (Area 5)	Precalculus with Transcendental Functions	3 ___
STAT 2004 (Area 5)	Introductory Statistics	3 ___
CHEM 1035, 1036 (Area 4)	General Chemistry	3 ___ 3 ___
CHEM 1045, 1046 (Area 4)	General Chemistry Lab	1 ___ 1 ___
ENGL 1105, 1106 or 1204H (Area 1)	First Year Writing or Honors First Year Writing	3 ___ 3 ___
AAEC 1005, 1006 or (Area 3)	Economics of Food & Fiber Systems or	3 ___ 3 ___
ECON 2005, 2006	Prin. of Econ.	
Humanities/Fine Arts (Area 2)	Choose from approved list _____	3 ___ 3 ___
Creative/Aesthetic Exp. (Area 6)	Choose from approved list _____	1 ___
Critical Issues in Global Context (Area 7)	Choose from approved list ¹ _____	0 or 3 ___
Subtotal		33 or 36¹

¹ Certain Area 7 courses may also count as Area 2 or restricted elective courses. See the Curriculum for Liberal Education Guide for Area 2/Area 7 courses, and the APSC website (<http://advising.apsc.vt.edu/major.cfm>) for Area 7/restricted electives.

MAJOR CORE

Course & Number	Title	Credits
BIOL 1105, 1106 (Area 4)	Principles of Biology**	3 ___ 3 ___
BIOL 1115, 1116	Principles of Biology Lab**	1 ___ 1 ___
APSC 1454	Intro. to Animal and Poultry Science	3 ___
APSC 1464	Intro. to Animal and Poultry Science Lab	1 ___
APSC 1504	APSC First Year Experience	1 ___
APSC 2004	Animal and Poultry Sciences Seminar	1 ___
ALS 2304	Comparative Animal Physiology & Anatomy	4 ___
ALS 3104	Animal Breeding and Genetics	3 ___
ALS 3204	Animal Nutrition and Feeding	3 ___
ALS 3304	Physiology of Reproduction	2 ___
ALS 3314	Physiology of Reproduction Lab	1 ___
APSC 3254 or BIOL 2604	Animal Products or General Microbiology	3 ___
APSC 4004	Contemporary Issues in Animal Sciences	2 ___
APSC 4954	Capstone Experience	
	Choose in consultation with your advisor**	2 ___
Choose one of the following courses:		
AAEC 2104, 2434, 3454, or MGT 3304	Personal Fin. Plan, Foundations in Ag. Bus., Small Bus. Mgt. & Entrepreneurship., or Mgt. Theory & Leadership Practice	3 ___
Subtotal		37

**** These credits will NOT be included in the calculation of the in-major GPA. Choice must be approved by the APSC Capstone Committee.**

Graduation Requirements: In addition to Required Courses listed on the first page, each student must complete courses listed in one of the boxes on pages 3-5 to equal at least 120 credits, with a minimum overall GPA of 2.0000 and a minimum in-major GPA of 2.0000. For purposes of GPA computation, courses IN-MAJOR will include **MAJOR CORE** listed on page 1 and all courses designated as in-major in all options on pages 3-6.

Some courses in the program requirements listed above may have prerequisites. Be sure to consult the University Catalog or check with your advisor.

An APSC degree may be earned in combination with the first year of work in an accredited medical, dental, or veterinary school, provided that the following requirements are met: at least two of the three years of pre-professional work, including the third year, are in residence at VT; and a minimum of 90 semester credits of undergraduate work that include all the courses listed above as University, College, and Departmental Requirements and at least 1 handling and 1 production class.

Foreign Language Requirement: Two semesters of a single foreign language are required unless 2 units of a single foreign language are completed in high school. These credits do not count toward graduation requirements.

Progress Towards Degree Policy: Upon the completion of 72 credits, APSC students must have completed CHEM 1036 and 1046, APSC 1454 and 1464, and 6 credits from ALS 2304, 3104, or 3204; have a minimum overall GPA of 2.0; and have completed at least 24 credits that apply to the University Liberal Education requirements.

***Prerequisites:** MATH 1025 is the prerequisite to PHYS 2205.

RESTRICTED AND FREE ELECTIVES

Except for Area 7, courses will not double count.

All restricted electives must be taken on an A-F basis unless offered P/F only.

2964, 2974, 2994, 3954, 4964, 4974, and 4984 courses will be approved on a case-by case basis only.

NOTE: Enrollment in specific courses included on this page is not guaranteed. Consult with your advisor when choosing restricted electives. Some of these courses may have prerequisites.

Agricultural/Applied Electives

AAEC 2104	APSC (including P/F only)	ENGL 3104 ¹	HNFE 1004
AAEC 3XXX & higher	BSE 2XXX & higher	FIW 2XXX & higher	HNFE 2XXX & higher
ALCE 3XXX & higher	CSES 2XXX & higher	FST 2XXX & higher	HORT 2XXX & higher
ALS 2XXX & higher	DASC 2XXX & higher	GEOG 4XXX	PPWS 2XXX & higher
	ENT 2XXX & higher		

<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

Business Electives:

AAEC 2104	AHRM 2404	ECON 2XXX & higher	IS 2XXX & higher
AAEC 2434	APSC 3764	ENGL 3774 ¹	LDRS 1016
AAEC 3XXX & higher	APSC 4554	FIN 3XXX & higher; HTM	MGT 3XXX & higher
ACIS 1504	BIT 2XXX & higher	2XXX & higher	MKTG 3XXX & higher
ACIS 2XXX & higher	COMM 2XXX		
AHRM 2304			

<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

Science Electives:

ALS 2404	BCHM 2XXX & higher (except 4074)	ENSC 3XXX	MATH 1015 & higher
ALS 4554	BIOL 2XXX & higher (except 2204 and 3404)	ENT 3XXX	NEUR 2025, 2026, 3044, 4044
ALS 4574	BMVS 4XXX & higher ²	ENT 4354	PHYS 2XXX & higher (except 2074, 2325, 2326)
APSC 3304	CHEM 2XXX & higher (except 4024)	ENGL 3764 ¹	PPWS 3XXX
APSC 4304	DASC 4304	FIW 2314	PSYC 2074
APSC 4054	DASC 4374	FST 45XX & higher	STAT 3XXX & higher
APSC 3064 or APSC 4064	DASC 4384	HNFE 3XXX	UH 4994
APSC 4994 (P/F)			

<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

Free Electives:

<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>	<u>Course</u>	<u>Cr.</u>	<u>Grade</u>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

¹ Only one of the three may be used as Restricted Electives towards an APSC degree.

² BMVS 4054 will count as free elective if companion/lab animal emphasis

PRODUCTION - BUSINESS OPTION - Livestock Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2114*+ Livestock Mgt. & Handling		1 _____
APSC/FST 3214 Meat Science		4 _____
Choose one of the following:		
APSC 4414+ Beef/Sheep Production, or		4 _____
APSC 4444+ Swine Production		3 _____
* APSC 2114 is a prerequisite for APSC 4414 and 4444 + Credits count in the in-major GPA		
Restricted Electives		
	Business Electives (Min. 6 cr.)	_____
	CSES Electives (Min. 3 cr.)	_____
Other:	Agri./Applied Electives	_____
	Science Electives	_____
Credits Needed		
	Bus. Electives	_____
	CSES Electives	_____
	Agric./Appl., Bus, or Science	_____
	Total Restricted Electives	38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives to _____		
	total ≥ 120 credits Needed:	_____
	Total Electives (minimum)	47 or 50

SCIENCE OPTION - Livestock Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2114*+ Livestock Mgt. & Handling		1 _____
Choose one of the following:		
APSC 4414+ Beef/Sheep Production, or		4 _____
APSC 4444+ Swine Production		3 _____
* APSC 2114 is a prerequisite for APSC 4414 and 4444 + Credits count in the in-major GPA		
Restricted Electives		
	Science Electives (Min. 15 cr.)	_____
Other:	Agri./Appl. Electives	_____
	Business Electives	_____
Credits Needed:		
	Science Elect.	_____
	Agric./Appl., Bus., or Science.	_____
	Total Restricted Electives	38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives to _____		
	total ≥ 120 credits Needed:	_____
	Total Electives (minimum)	47 or 50

PRODUCTION - BUSINESS OPTION - Poultry Emphasis -		
Courses & No.	Title	Credits
Required Courses		
APSC 2104*+ Poultry Lab		1 _____
BMVS 4024 Diseases of Poultry		2 _____
APSC 4404+ Commercial Poultry Ent. Mgt.		4 _____
* ALS 2304 is a co-requisite for APSC 2104; APSC 2104 is a prerequisite for APSC 4404 + Credits count in the in-major GPA		
Restricted Electives		
	Business Electives (Min. 6 cr.)	_____
Other:	Agric./Appl. Electives	_____
	Science Electives	_____
Credits Needed:		
	Business	_____
	Agric./Appl., Bus., or Science	_____
	Total Restricted Electives	38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives _____		
	total ≥ 120 credits Needed:	_____
	Total Electives (minimum)	47 or 50

SCIENCE OPTION - Poultry Emphasis -		
Courses & No.	Title	Credits
Required Course		
APSC 2104*+ Poultry Lab		1 _____
APSC 4404+ Commercial Poultry Ent. Mgt.		4 _____
* ALS 2304 is a co-requisite for APSC 2104; APSC 2104 is a prerequisite for APSC 4404 + Credits count in the in-major GPA		
Restricted Electives		
	Science Electives (Min. 15 cr.)	_____
Other:	Agric./Appl. Electives	_____
	Business Electives	_____
Credits Needed:		
	Science Electives	_____
	Agric./Appl., Bus., or Science	_____
	Total Restricted Electives	38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives to _____		
	total ≥ 120 credits Needed:	_____
	Total Electives (minimum)	47 or 50

PRODUCTION - BUSINESS OPTION - Equine Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2124* ⁺	Horse Mgt. & Handling Lab	1 _____
APSC 2424*	Intro. to Equine Industry	3 _____
APSC 4424 ⁺	Horse Production & Mgt.	4 _____
* APSC 2124 and 2424 are prerequisite for APSC 4424		
⁺ Credits count in the in-major GPA		
Restricted Electives		
Business Electives (Min. 6 cr.)		_____
Other:		
Agric./Appl. Electives		_____
Science Electives		_____
Credits Needed:		
Business		_____
Agric./Appl., Bus., or Science		_____
Total Restricted Electives		38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives to _____		
total ≥ 120 credits Needed:		_____
Total Electives (minimum)		47 or 50

SCIENCE OPTION - Equine Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2124* ⁺	Horse Mgt. & Handling Lab	1 _____
APSC 2424*	Intro. to Equine Industry	3 _____
APSC 4424 ⁺	Horse Production & Mgt.	4 _____
* APSC 2124 and 2424 are prerequisite for APSC 4424		
⁺ Credits count in the in-major GPA		
Restricted Electives		
Science Electives (Min. 15 cr.)		_____
Other:		
Agric./Appl. Electives		_____
Business Electives		_____
Credits Needed:		
Science Electives		_____
Agric./Appl., Bus. or Science		_____
Total Restricted Electives		38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives _____		
to total ≥ 120 credits Needed:		_____
Total Electives (minimum)		47 or 50

PRODUCTION - BUSINESS OPTION - Companion Animal Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2164* ⁺	Comp/Lab Anim. Care & Handling	1 _____
APSC 3064*	Companion/Lab Anim Sci.	3 _____
APSC 4464 ⁺	Companion/Lab Animal Health & Management	4 _____
* APSC 2164 and 3064 are prerequisite for APSC 4464		
⁺ Credits count in the in-major GPA		
Restricted Electives		
Business Electives (Min. 6 cr.)		_____
Other:		
Agric./Appl. Electives		_____
Science Electives		_____
Credits Needed:		
Business		_____
Agric./Appl., Bus., or Science		_____
Total Restricted Electives		38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives to _____		
total ≥ 120 credits Needed:		_____
Total Electives (minimum)		47 or 50

SCIENCE OPTION - Companion Animal Emphasis -		
Courses & No.	Title	Credits
Required Emphasis Courses		
APSC 2164* ⁺	Comp/Lab Anim. Care & Handling	1 _____
APSC 3064*	Companion/Lab Anim. Sci.	3 _____
APSC 4464 ⁺	Companion/Lab Animal Health & Management	4 _____
* APSC 2164 and 3064 are prerequisite for APSC 4464		
⁺ Credits count in the in-major GPA		
Restricted Electives		
Science Electives (Min. 15 cr.)		_____
Other:		
Agric./Appl. Electives		_____
Business Electives		_____
Credits Needed:		
Science Electives		_____
Agric./Appl., Bus. or Science		_____
Total Restricted Electives		38**
**NOTE: At least 9 of the 38 credits must be 4XXX		
Free Electives: Choose free electives _____		
to total ≥ 120 credits Needed:		_____
Total Electives (minimum)		47 or 50

PRE- VET OPTION

Course & No.	Title	Credits
Choose one of the following four combinations:		
APSC 2104 ⁺ ; APSC 4404 ⁺	Poultry Lab, Commercial Poultry Enterprise Mgt.	1 ___ 4 ___
<u>OR</u>		
APSC 2114 ⁺ ; APSC 4414 ⁺ or 4444 ⁺	Livestock Mgt & Handling, and Beef/Sheep or Swine Production	1 ___ 4 ___ or 3 ___
<u>OR</u>		
APSC 2124 ⁺ ; APSC 2424; APSC 4424 ⁺	Horse Mgt. Laboratory, Equine Industry, Horse Prod.	1 ___ 3 ___ 4 ___
<u>OR</u>		
APSC 2164 ⁺ ; APSC 3064; APSC 4464 ⁺	Comp. & Lab Anim. Care & Handling, Comp/Lab Anim. Science, Comp/Laboratory Anim. Health & Mgt	1 ___ 3 ___ 4 ___
+ Credits count in the in-major GPA		
<u>Required Science Courses:*</u>		
CHEM 2535 - 2536	Organic Chemistry	3 ___ 3 ___
CHEM 2545 – 2546	Organic Chemistry Lab	1 ___ 1 ___
PHYS 2205 - 2206	General Physics	3 ___ 3 ___
PHYS 2215 – 2216	General Physics Lab	1 ___ 1 ___
BCHM 2024, 3114, or 4115	Concepts of Biochemistry, Biochemistry for Biotechnology & Life Sciences, or General Biochemistry	3 ___ or 4 ___
<u>Restricted Electives:</u>	Science Electives	_____
	Agricultural/Applied Electives	_____
	Business Electives	_____
<u>Credits Needed:</u>	Agricultural/Applied, Business, or Science Electives	_____
	Total Restricted Electives	38**
*NOTE: These courses fulfill the requirements for admission to the VA/ MD Regional College of Veterinary Medicine. Students are responsible for checking to be sure they meet the requirements for admission to other veterinary schools.		
**At least 9 of the 38 credits must be 4XXX		
Free Electives:	Choose free electives to total ≥ 120 credits	_____
	Needed:	_____
	Total Electives (minimum)	47 or 50