

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
BACHELOR OF SCIENCE IN ANIMAL AND POULTRY SCIENCES
Major in Animal and Poultry Sciences – Pre-Vet Option
For Students Graduating in Calendar Year 2021

Name: _____ Last Four of 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 [†] _____	0 or 3 _____
Subtotal		33 or 36¹

[†] 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	3 _____
APSC 3254 or BIOL 2604	Animal Products or General Microbiology	3 _____
APSC 4004	Contemporary Issues in Animal Sciences	3 _____
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		38
** 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	HORT 2XXX & higher
ALS 2XXX & higher	DASC 2XXX & higher	GEOG 4XXX	PPWS 2XXX & higher
	ENT 2XXX & higher		

Course	Cr.	Grade	Course	Cr.	Grade	Course	Cr.	Grade
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

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;	MGT 3XXX & higher
ACIS 1504	BIT 2XXX & higher	HTM 2XXX & higher	MKTG 3XXX & higher
ACIS 2XXX & higher	COMM 2XXX		
AHRM 2304			

Course	Cr.	Grade	Course	Cr.	Grade	Course	Cr.	Grade
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

Science Electives:

ALS 2404	BCHM 2XXX & higher	ENSC 3XXX	MATH 1015 & higher
ALS 4554	(except 4074)	ENT 3XXX	NEUR 2025, 2026, 3044,
ALS 4574	BIOL 2XXX & higher	ENT 4354	4044
APSC 3304	(except 2204 and 3404)	ENGL 3764 ¹	PHYS 2XXX & higher
APSC 4304	BMSP 2XXX & higher	FIW 2314	(except 2074, 2325, 2326)
APSC 4224	BMVS 4XXX & higher ²	FST 3XXX & higher	PPWS 3XXX
APSC 4054	CHEM 2XXX & higher	HNFE 3XXX	PSYC 2074
APSC 3064 or APSC 4064	(except 4024)		STAT 3XXX & higher
APSC 4994 (P/F)	DASC 4304		UH 4994
	DASC 4374		
	DASC 4384		

Course	Cr.	Grade	Course	Cr.	Grade	Course	Cr.	Grade
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

Free Electives:

Course	Cr.	Grade	Course	Cr.	Grade	Course	Cr.	Grade
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

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.

PRE-VET OPTION - Livestock Emphasis -		
Course & No.	Title	Credits
Required Emphasis Courses		
APSC 2114 ^{*,+}	Livestock Management and Handling	1 _____
Choose one of the following:		
APSC 4414 ⁺	Beef/Sheep Production	4 _____
APSC 4444 ⁺	Swine Production	or 3 _____
*APSC 2114 is a prerequisite for APSC 4414 and 4444		
⁺ Credits count in the in-major GPA		
Restricted Electives:		
Required Courses:		
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 _____
	Science Electives	_____
	Agricultural/Applied Electives	_____
	Business Electives	_____
Recommended Courses:		
HNFE 2204**	Medical Terminology	_____
Credits Needed:		
	Agric./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

PRE-VET OPTION - Poultry Emphasis -		
Course & No.	Title	Credits
<u>Required Emphasis Courses:</u>		
APSC 2104 ^{*,+}	Poultry Lab	1 _____
APSC 4404 ⁺	Commercial Poultry Enterprise Management	4 _____
<p>[*] ALS 2304 is a co-requisite of APSC 2104; APSC 2104 is a prerequisite for APSC 4404</p> <p>⁺ Credits count in the in-major GPA</p>		
<u>Restricted Electives:</u>		
<u>Required 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 _____
	Science Electives	_____
	Agricultural/Applied Electives	_____
	Business Electives	_____
<u>Recommended Courses:</u>		
HNFE 2204**	Medical Terminology	_____
<u>Credits Needed:</u>		
	Agric./Applied, Business, or Science Electives	_____
	Total Restricted Electives	38***
<p>**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.</p> <p>***At least 9 of the 38 credits must be 4XXX</p>		
<p>Free Electives: Choose free electives to total ≥ 120 credits</p> <p style="text-align: right;">_____</p> <p style="text-align: right;">Needed: _____</p> <p style="text-align: right;">Total Electives (minimum) 47 or 50</p>		

PRE-VET OPTION - Equine Emphasis -		
Course & No.	Title	Credits
<u>Required Emphasis Courses</u>		
APSC 2124 ^{*,+}	Horse Management and Handling Lab	1 _____
APSC 2424 [*]	Introduction to Equine Industry	3 _____
APSC 4424 ⁺	Horse Production and Management	4 _____
[*] APSC 2124 and 2424 are prerequisites for APSC 4424 ⁺ Credits count in the in-major GPA		
<u>Restricted Electives:</u>		
<u>Required 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 _____
	Science Electives	_____
	Agricultural/Applied Electives	_____
	Business Electives	_____
<u>Recommended Courses:</u>		
HNFE 2204**	Medical Terminology	_____
<u>Credits Needed:</u>		
	Agric./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

PRE-VET OPTION - Companion and Laboratory Animal Emphasis -		
Courses & No.	Title	Credits
<u>Required Emphasis Courses</u>		
APSC 2164 ^{*,+}	Comp/Lab Anim. Care & Handling	1 _____
APSC 3064 [*]	Companion/Lab Anim. Science	3 _____
APSC 4464 ⁺	Companion/Lab Animal Health and Management	4 _____
[*] APSC 2164 and 3064 are prerequisite for APSC 4464 ⁺ Credits count in the in-major GPA		
<u>Restricted Electives:</u>		
<u>Required 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 _____
	Science Electives	_____
	Agricultural/Applied Electives	_____
	Business Electives	_____
<u>Recommended Courses:</u>		
HNFE 2204**	Medical Terminology	_____
<u>Credits Needed:</u>		
	Agric./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 <div style="text-align: right; margin-right: 50px;"> Needed: _____ Total Electives (minimum) 47 or 50 </div>		