

**COLLEGE OF AGRICULTURE AND LIFE SCIENCES**  
**BACHELOR OF SCIENCE IN ANIMAL AND POULTRY SCIENCES**  
**Major in Animal and Poultry Sciences – Science Option**  
**For student date of entry under UG Catalog 2022-2023**

Name: \_\_\_\_\_

Last 4 of Student ID # \_\_\_\_\_

**PATHWAY TO GENERAL EDUCATION**

Course & Number	Title	Credits
<b>DISCOURSE (1)</b>		
1F: ENGL 1105-1106	First-Year Writing	3 ___ 3 ___
1A: #APSC 4004 <sup>+</sup>	Contemporary Issues in the Animal Sciences	3 ___
<b>CRITICAL THINKING IN HUMANITIES (2)</b>		
Approved Courses _____		3 ___ 3 ___
<b>REASONING IN SOCIAL SCIENCES (3)</b>		
AAEC 1005, 1006 or ECON 2005-2006	Economics of the Food and Fiber Systems or Principles of Economics	3 ___ 3 ___
<b>REASONING IN NATURAL SCIENCES (4)</b>		
BIOL 1105, 1106	Principles of Biology	3 ___ 3 ___
<b>QUANTITATIVE AND COMPUTATIONAL THINKING (5)</b>		
5F: MATH 1014 or MATH 1025*	Precalculus with Transcendental Functions or Elementary Calculus	3 ___
5F: #STAT 2004	Introductory Statistics	3 ___
5A: #ALS 3104 <sup>+</sup>	Animal Breeding and Genetics	3 ___
<b>CRITIQUE AND PRACTICE IN DESIGN AND ARTS (6)</b>		
Approved Courses _____		3 ___ 3 ___
<b>CRITICAL ANALYSIS OF IDENTITY AND EQUITY IN THE UNITED STATES (7)</b>		
Approved Course _____		3 ___
<b>Subtotal</b>		<b>45</b>

**DEGREE CORE**

Course & Number	Title	Credits
#BIOL 1115, 1116	Principles of Biology Lab**	1 ___ 1 ___
#CHEM 1035-1036, #1045-1046	General Chemistry** and General Chemistry Lab**	3 ___ 3 ___ 1 ___ 1 ___
#APSC 1454	Introduction to Animal and Poultry Science***	3 ___
#APSC 1464	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 and Anatomy	4 ___
#ALS 3204	Animal Nutrition and Feeding	3 ___
#ALS 3304	Physiology of Reproduction	3 ___
#APSC 3254 or #3434 or #BIOL 2604	Animal Products or Host Microbe Interactions or General Microbiology	3 ___
#APSC 4954	APSC Capstone Experience**	2 ___
<b>Choose one of the following courses:</b>		
AAEC 2104, or #2434, or #MGT 3304	Personal Financial Planning, or Foundations of Agribusiness or Management Theory and Leadership Practices	3 ___
<b>Subtotal</b>		<b>34</b>

**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 4-7 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 included IN-MAJOR are courses listed in the DEGREE CORE on page 1, APSC 4004 and ALS 3104 in the Pathway to General Education on page 1, and designated (+) courses in all options on pages 4-7.

+These courses are included in the in-major GPA calculation; \*MATH 1025 is the pre-requisite for PHYS 2205; \*\* These credits will NOT be included in the calculation of the in-major GPA; \*\*\*A grade of C or better is required.

#These courses have prerequisites and /or corequisites; please consult the University Course 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 Pathway to General Education and Degree Core, and at least 1 handling lab and 1 production course.

**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 Pathway to General Education requirements.

**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.

**RESTRICTED AND FREE ELECTIVES**

See the boxes on pages 4-7 for information on how many credits to choose from each Restricted Elective Category below.  
 Courses used for Pathways 1-6, Degree Core, or Emphasis cannot be double counted as Restricted or Free Electives.  
All restricted electives **must be taken on an A-F basis** unless offered P/F only.

**2964, 2974, 2984, 2994, 3954, 3964, 3984, 4964, 4974, 4984 and 4994 courses  
 will be approved on a case-by-case basis.**

**NOTE: Enrollment in specific courses listed on pages 2 and 3 is not guaranteed. Consult with your  
 advisor when choosing restricted electives. Unless otherwise indicated, courses are 3 credits.**

**Agricultural/Applied Electives**

ALCE 3XXX & higher		FIW 2XXX & higher	
ALS 2XXX & higher		FST 2XXX & higher	
APSC (including P/F)		GEOG 4XXX	
BMVS 4054 <sup>2</sup>	Laboratory Animal Management	HIST 2524	History of Agriculture
BSE 2XXX & higher		HNFE 1004	Foods, Nutrition & Exercise
CSES 2XXX & higher		HNFE 2XXX & higher	
DASC 2XXX & higher		HORT 2XXX & higher	
ENT 2XXX & higher		PHS 2XXX & higher	
#ENGL 3104 <sup>1</sup>	Professional Writing	PPWS 2XXX & higher	

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

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

**Business Electives**

AAEC 2XXX & higher		CONS 2304	Consumer & Family Finances
ACIS 1504	Intro to Bus Analytics & BI	ECON 2XXX & higher	
ACIS 2XXX & higher		#ENGL 3774 <sup>1</sup>	Business Writing
AHRM 2404	Consumer Rights	FIN 3XXX & higher	
#APSC 3764	Livestock Merchandising	HTM 2XXX & higher	
#APSC 4554	Adv Livestock Enterprise Mgmt	IS 2XXX & higher	
BIT 2XXX & higher		LDRS 2XXX & higher	
CMST 2XXX & higher		MGT 2XXX & higher	
COMM 2XXX & higher		MKTG 3XXX & higher	
		PR 2XXX & higher	

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

**Science Electives**

#ALS 2404 (BIOL 2404)	Biotech in Global Soc	#DASC 4374	Physiology of Lactation
#ALS 4554 (BIOL 4554)	Neurochemical Regulation	#DASC 4384	
#ALS 4574 (BIOL 4574)	Social Behav. Birds & Mammals	ENSC 3XXX	
#APSC 3064	Comp/Lab Animal Science	ENT 3XXX	
#APSC 3304	Embryology	ENT 4354 (BIOL 4354) -4 cr	
#APSC 4054 (BCHM 4054)	Genomics	#ENGL 3764 <sup>1</sup>	Technical Writing
#APSC 4224	Equine Exercise Physiology	FST 4XXX	
#APSC 4304 (DASC 4304)	Bovine Reproductive Practices	MATH 1025 & higher	
#APSC 4514	Animal Growth and Development	#NEUR 2025-2026	Intro. to Neuroscience
APSC 4994	Undergraduate Research	#NEUR 3XXX & higher	
BCHM 2XXX & higher (except 4074)		#PHYS 2205-2206, 2215-2216	General Physics
BIOL 2XXX & higher (except 3404, 3504, 3804, 3814, 4594)		PPWS 3XXX & higher (except 4154, 4164, 4604)	
#BMVS 4074	Pharmacology	#PSYC 2074	Animal Behavior
CHEM 2XXX & higher (except 4014)		STAT 3XXX & higher	

**Course    Cr.    Grade**

_____	_____	_____
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**Course    Cr.    Grade**

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

<sup>2</sup> BMVS 4054 will count as a free elective in the companion/lab animal emphasis

**Free Electives**

**Course    Cr.    Grade**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Course    Cr.    Grade**

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

<b>SCIENCE OPTION - Livestock Emphasis -</b>		
<b>Course &amp; No.</b>	<b>Title</b>	<b>Credits</b>
<b><u>Required Emphasis Courses</u></b>		
#APSC 2114 <sup>+</sup>	Livestock Management and Handling	1 _____
Choose <b>one</b> of the following:		
#APSC 4414 <sup>+</sup>	Beef/Sheep Production <b>or</b>	4 _____
#APSC 4444 <sup>+</sup>	Swine Production	<b>or</b> 3 _____
_____		
+ Credits count in the in-major GPA		
<b><u>Additional Requirements (Restricted Electives)*:</u></b>		
	Science Electives (Minimum 15 credits)	_____
<b><u>Other Restricted Electives*:</u></b>		
	Agricultural/Applied Electives	_____
	Business Electives	_____
<b><u>Credits Still Needed:</u></b>		
	Science Electives	_____
	Agricultural/Applied or Business or Science Electives	_____
	<b>Total Emphasis Credits</b>	<b>38**</b>
*See the list of restricted electives on pages 2 and 3		
**NOTE: At least 9 of the 38 credits must be 4XXX		
<b>Free Electives:</b>	Choose free electives to total $\geq$ 120 credits	_____
	<b>Needed:</b>	_____
	<b>Total Credits (minimum)</b>	<b>41</b>

<b>SCIENCE OPTION - Poultry Emphasis -</b>		
<b>Course &amp; No.</b>	<b>Title</b>	<b>Credits</b>
<b><u>Required Emphasis Courses:</u></b>		
#APSC 2104 <sup>+</sup>	Poultry Lab	1 _____
#APSC 4404 <sup>+</sup>	Poultry Enterprise Management	4 _____
_____		
+ Credits count in the in-major GPA		
<b><u>Additional Requirements (Restricted Electives)*:</u></b>		
Science Electives (Minimum 15 credits)		_____
<b><u>Other Restricted Electives*:</u></b>		
Agricultural/Applied Electives		_____
Business Electives		_____
<b><u>Credits Still Needed:</u></b>		
Science Electives		_____
Agricultural/Applied or Business or Science Electives		_____
<b>Total Emphasis Credits</b>		<b>38**</b>
*See the list of restricted electives on pages 2 and 3		
**NOTE: At least 9 of the 38 credits must be 4XXX.		
<b>Free Electives:</b> Choose free electives to total $\geq$ 120 credits		_____
<b>Needed:</b>		_____
<b>Total Credits (minimum)</b>		<b>41</b>

<b>SCIENCE OPTION - Equine Emphasis -</b>		
<b>Course &amp; No.</b>	<b>Title</b>	<b>Credits</b>
<b><u>Required Emphasis Courses</u></b>		
#APSC 2124 <sup>+</sup>	Horse Management Lab	1 _____
APSC 2424	Introduction Equine Industry	3 _____
#APSC 4424 <sup>+</sup>	Horse Production and Management	4 _____
<sup>+</sup> Credits count in the in-major GPA		
<b><u>Additional Requirements (Restricted Electives)*:</u></b>		
	Science Electives (Minimum 15 credits)	_____
<b><u>Other Restricted Electives*:</u></b>		
	Agricultural/Applied Electives	_____
	Business Electives	_____
<b><u>Credits Still Needed:</u></b>		
	Science Electives	_____
	Agricultural/Applied or Business or Science Electives	_____
<b>Total Emphasis Credits</b>		<b>38**</b>
*See the list of restricted electives on pages 2 and 3		
**NOTE: At least 9 of the 38 credits must be 4XXX.		
<b><u>Free Electives:</u></b>	Choose free electives to total $\geq$ 120 credits	_____
	<b>Needed:</b>	_____
<b>Total Credits (minimum)</b>		<b>41</b>

<b>SCIENCE OPTION</b>		
<b>- Companion and Laboratory Animal Emphasis -</b>		
<b>Courses &amp; No.</b>	<b>Title</b>	<b>Credits</b>
<b><u>Required Emphasis Courses</u></b>		
#APSC 2164 <sup>+</sup>	Companion/Lab Animal Care and Handling	1 _____
#APSC 3064	Companion/Lab Animal Science	3 _____
#APSC 4464 <sup>+</sup>	Companion/Lab Animal Health and Management	4 _____
<hr/>		
+ Credits count in the in-major GPA		
<b><u>Additional Requirements (Restricted Electives)*:</u></b>		
	Science Electives (Minimum 15 credits)	_____
<b><u>Other Restricted Electives*:</u></b>		
	Agricultural/Applied Electives	_____
	Business Electives	_____
<b><u>Credits Still Needed:</u></b>		
	Science Electives	_____
	Agricultural/Applied or Business or Science	_____
	<b>Total Emphasis Credits</b>	<b>38**</b>
*See the list of restricted electives on pages 2 and 3		
**NOTE: At least 9 of the 38 credits must be 4XXX		
<b><u>Free Electives:</u></b>	Choose free electives to total $\geq 120$ credits	_____
	<b>Needed:</b>	_____
	<b>Total Credits (minimum)</b>	<b>41</b>