

**COLLEGE OF AGRICULTURE AND LIFE SCIENCES  
BACHELOR OF SCIENCE IN ANIMAL AND POULTRY SCIENCES  
Livestock Emphasis Checksheet For Students Graduating 2011**

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

Student ID # \_\_\_\_\_

**UNIVERSITY/COLLEGE REQUIREMENTS**

Course & Number	Title	Credits
MATH 1015, 1016, 2015 (Area 5)	Calculus w/Trig.	3 ___
STAT 2004 (Area 5)	Introductory Statistics	3 ___
BIOL 1105, 1106 (Area 4)	Principles of Biology	3 ___ 3 ___
BIOL 1115, 1116	Principles of Biology Lab	1 ___ 1 ___
CHEM 1035, 1036	General Chemistry	3 ___ 3 ___
CHEM 1045, 1046	General Chemistry Lab	1 ___ 1 ___
ENGL 1105, 1106 or H1204 (Area 1)	Freshman English or Honors English	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 <sup>1</sup> _____	0 or 3 ___
<b>Subtotal</b>		<b>41 or 44<sup>1</sup></b>

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

**DEPARTMENTAL REQUIREMENTS**

Course & Number	Title	Credits
APSC 1454	Intro. to Animal and Poultry Science	3 ___
APSC 1464	Intro. to Animal and Poultry Science Lab	1 ___
APSC 1504	Animal and Poultry Sciences Survey	1 ___
APSC 2004	Animal and Poultry Sciences Seminar	1 ___
ALS 2304	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	Animal Products	3 ___
APSC 4004	Contemporary Issues in Animal Sciences	2 ___
<b>Choose one of the following courses:</b>		
AAEC 3404, 3454, MGT 3304, AAEC 2104	Ag. Fin., Small Bus., Mgt. Theory or Personal Fin. Plan.	3 ___
Capstone Learning Experience– Choose in consultation with your advisor** _____		2 ___
<b>Subtotal</b>		<b>29</b>

**\*\* 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 DEPARTMENTAL REQUIREMENTS listed on page 1 and designated option requirements.

The ViEWS requirement for this major will have been satisfied after successful completion of the Capstone experience.

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.

**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:** This checksheet contains no hidden prerequisites for required courses.

## 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 Electives

AAEC 2104	APSC	ENGL 3104 <sup>2</sup>	HNFE 1004
AAEC 3XXX & higher	BSE 2XXX & higher	FIW 2XXX & higher	HNFE 2XXX & higher
AEE 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	HIST 3124	

<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	ALS 1514 <sup>1</sup>	CS 1004 <sup>1</sup>	IS 2XXX & higher
AAEC 3XXX & higher	APSC 3764	ECON 2XXX & higher	LDRS 1016
ACIS 1504 <sup>1</sup>	BIT	ENGL 3774 <sup>2</sup>	MGT 3XXX & higher
ACIS 2XXX & higher	COMM 2XXX (except	FIN 3XXX & higher;	MKTG 3XXX & higher
AHRM 2304, 2404	2054, 2114)	HTM 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>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

### Science Electives:

ALS 4554	BCHM 2XXX & higher (except 4074)	ENSC 3XXX	MATH
ALS 4574	BIOL 2XXX & higher (except 2204 and 3404)	ENT 3XXX	PHYS 2XXX & higher (except 2325, 2326)
APSC 2464	BMVS	ENT 4354	PPWS 3XXX
APSC 3304	CHEM 2XXX & higher (except 4024)	ENGL 3764 <sup>2</sup>	PSYC 2074
APSC 3464	DASC 4374	FIW 2314	STAT 3XXX & higher
APSC 4054		FST 45XX & higher	UH 4994
APSC 4154		HNFE 3XXX (except	
APSC 4994		3214, and 3864)	

<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>
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___
_____	___	___	_____	___	___	_____	___	___

<sup>1</sup> ALS 1514, ACIS 1504, and CS 1004 duplicate each other. Only one of these may be taken for credit towards a degree in APSC.

<sup>2</sup> Only one of the three may be used as Restricted Electives towards an APSC degree.

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

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

PRE- VET OPTION		
Course & No.	Title	Credits
<b>Choose the following combination:</b>		
APSC 2114 <sup>+</sup> ; APSC 4414 <sup>+</sup> <b>or</b> 4444 <sup>+</sup>	Lvstk Mgt & Handling, and Beef/Sheep or Swine Production	1 _____ 4 _____ <b>or</b> 3 _____
<b>Required Science Courses:*</b>		
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	Biochemistry	3 _____ <b>or</b> 4 _____
<b>Restricted Electives:</b>	Science Electives	_____
	Agricultural Electives	_____
	Business Electives	_____
<b>Credits Needed:</b>	Agricultural, Business, or Science Electives	_____
	<b>Total Restricted Electives</b>	<b>38**</b>
<b>*NOTE: These courses fulfill the requirements for admission to the VA/ MD Regional College of Veterinary. Students are responsible for checking to be sure they meet the requirements for admission to other veterinary schools.</b>		
<b>**At least 9 of the 38 credits must be 4XXX</b>		
<b>Free Electives:</b>	Choose free electives to total ≥ 120 credits	_____
	<b>Needed:</b>	_____
	<b>Total Electives (minimum)</b>	<b>47 or 50</b>