

**COLLEGE OF AGRICULTURE AND LIFE SCIENCES
BACHELOR OF SCIENCE IN ANIMAL AND POULTRY SCIENCES
Livestock Emphasis Checksheet For Students Graduating 2010**

Name: _____

Student ID # _____

UNIVERSITY/COLLEGE REQUIREMENTS

| Course & Number | Title | Credits |
|---|---|----------------|
| MATH 1015, 1016, 2015, STAT 2004 (Area 5) | Calculus w/Trig, Statistics | 3 ___ 3 ___ |
| BIOL 1105, 1106 (Area 4) | Principles of Biology | 3 ___ 3 ___ |
| BIOL 1115, 1116 | Principles of Biology Lab | 1 ___ 1 ___ |
| BIOL 2604 and 2614 | Microbiology and Micro. Lab | 3 ___ 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 ___ |
| COMM 2004 or AEE 3634 | Public Speaking or Communicating Agric. in Speaking | 3 ___ |
| AAEC 1005, 1006 or (Area 3) ECON 2005, 2006 | Economics of Food & Fiber Systems or Prin. of Econ. | 3 ___ 3 ___ |
| 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 | | 47 - 51 |

¹ 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://advising.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 & Poultry Science Survey | 1 ___ |
| ALS 2304 | Animal Physiology & Anatomy | 4 ___ |
| ALS 3104 | Animal Breeding and Genetics | 4 ___ or 3 ___ |
| ALS 3204 | Animal Nutrition and Feeding | 4 ___ or 3 ___ |
| APSC 3004* or 4004* | APSC Seminar or Contemporary Issues in APSC | 2 ___ |
| ALS 4304 or 3304 | Physiology of Reproduction | 4 ___ or 3 ___ |
| Choose one of the following courses: | | |
| AAEC 3404, 3454, MGT 3304, AAEC 2104 | Ag. Fin., Small Bus., Mgt. Theory, or Personal Fin. Plan. | 3 ___ |
| Select two of the following courses*: | | |
| APSC 4404 ⁺ , 4414, 4424 [#] , 4434, or 4444 | Poultry, Beef, Horse, Sheep or Swine Production | 4 ___ 4 ___ or 3 ___ |
| Subtotal | | 30-34** |

* Completion of these courses satisfies the university WI and ViEWS requirement.

+ Required for Poultry Emphasis.

Required for Equine Emphasis.

** **Departmental Requirements and Restricted Electives must total 60 credits**

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.

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 ² | 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 1514 ¹ | DASC 2XXX & higher | GEOG 4XXX | PPWS 2XXX & higher |
| ALS 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 | APSC 3764 | ECON 2XXX & higher | LDRS 1016 |
| AAEC 3XXX & higher | BIT | ENGL 3774 ² | MGT 3XXX & higher |
| ACIS 1504 ¹ | COMM 2XXX (except | FIN 3XXX & higher; | MKTG 3XXX & higher |
| ACIS 2XXX & higher | 2054, 2114) | HTM 2XXX & higher | STAT 2004 |
| AHRM 2304, 2404 | CS 1004 ¹ | IS 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:

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

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

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

| PRODUCTION - BUSINESS OPTION - Livestock Emphasis - | | |
|--|---------------------------------------|-----------------|
| Courses & No. | Title | Credits |
| <u>Required Course</u> | | |
| APSC/FST 3214 | Meat Science | 4 _____ |
| <u>Restricted Electives</u> | | |
| | Business Electives (Minimum 6 cr.) | _____ |
| | CSES Electives (Min. 3 cr.) | _____ |
| <u>Other:</u> | | |
| | Agricultural Electives | _____ |
| | Science Electives | _____ |
| <u>Credits Needed</u> | | |
| | Bus. Electives | _____ |
| | CSES Electives | _____ |
| | Ag, Bus, or Science | _____ |
| | Total Restricted Electives | 26 – 30* |
| *Restricted Electives + Departmental Requirements must = 60 credits | | |
| <u>Free Electives:</u> Choose free electives to _____ | | |
| total ≥ 120 credits Needed: _____ | | |

| SCIENCE OPTION - Livestock Emphasis - | | |
|---|---------------------------------------|-----------------|
| Courses & No. | Title | Credits |
| <u>Restricted Electives</u> | | |
| | Science Electives (Minimum 15 cr.) | _____ |
| <u>Other:</u> | | |
| | Agricultural Electives | _____ |
| | Business Electives | _____ |
| <u>Credits Needed:</u> | | |
| | Science Elect. | _____ |
| | Ag., Bus., or Science Elect. | _____ |
| | Total Restricted Electives | 26 – 30* |
| * Restricted Electives + Deptmental Requirements must = 60 credits | | |
| <u>Free Electives:</u> Choose free electives to _____ | | |
| total ≥ 120 credits Needed: _____ | | |

| PRE-VET OPTION - Livestock Emphasis - | | |
|--|---|-----------------------|
| Course & No. | Title | Credits |
| <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 Bioc., Bioc. Techniques, or General Biochemistry | 3 _____ or 4 _____ |
| <u>Restricted Electives</u> | | |
| | Science Electives | _____ |
| | Agricultural Electives | _____ |
| | Business Electives | _____ |
| <u>Credits Needed:</u> | | |
| | Agricultural, Business, or Science Electives | _____ |
| | Total Restricted Electives | 26- 30** |
| ** Restricted Electives + Departmental Requirements must = 60 credits | | |
| *NOTE: These courses fulfill the requirements for admission to the Virginia/ Maryland Regional College of Veterinary Medicine. Students are responsible for checking to be sure they meet the requirements for admission to other veterinary schools. | | |
| <u>Free Electives:</u> Choose free electives to total ≥ 120 credits | | |
| Needed: _____ | | |