

**Facts About Required and Elective Courses for Animal and Poultry Sciences Majors for Students  
Graduating in 2011 or Later**

**\*\*\* NOTICE \*\*\***

This is a listing of required courses and elective courses chosen frequently by Animal and Poultry Sciences Majors. These are **not** the only courses which can be used as restricted electives. See the 2011 check sheets for restrictions on elective courses. Timetable and catalog material is on the HOKIE SPA.

**ALL REQUIRED AND RESTRICTED ELECTIVES MUST BE TAKEN A-F UNLESS  
OFFERED P/F ONLY**

<u>Course &amp; No.</u>	<u>Title</u>	<u>Semester Taught</u>	<u>Prerequisite</u>
<b>I. <u>Core Curriculum</u></b>			
MATH 1015 (3)	Calculus w/Trig I	I,II,III,IV	2 units HS Alg. & P. Geom.
STAT 2004 (3)	Intro. to Statistics	I, II	
BIOL 1105-1115 (3)(1)	Prin Biol & Lab	I, III	
BIOL 1106-1116 (3)(1)	" " " "	II, IV	
CHEM 1035-45 (3)(1)	General Chem & Lab	I,II,III	
CHEM 1036-46 (3)(1)	" " " "	II,III,IV	CHEM 1035, 1045
ENGL 1105 (3)	Freshman English	I,II,III,IV	Placement
ENGL 1106 (3)	" "	I,II,III,IV	ENGL 1105 or Placement
AAEC 1005 (3)	Econ Food & Fib Sys	I,II	
AAEC 1006 (3)	" " " " "	I,II	AAEC 1005
Area 2 (3)(3)	Choose from approved list		
Area 6 (1)	Choose from approved list		
Area 7 (3)	Choose from approved list (can double count)		
<b>II. <u>Departmental Requirements</u></b>			
APSC 1454 (3)	Intro. to Anim. & Poul.	I,II	Co: APSC 1464 or consent
APSC 1464 (1)	Intro. APSC Lab	I,II	" " " " "
APSC 1504 (1)	Anim & Poul. Sci Survey	I,II	I = Transfer students only
APSC 2004 (1)	Anim. & Poul. Sci. Seminar	I	APSC 1504
ALS 2304 (4)	Animal Physiol & Anat	I,II	BIOL 1106
ALS 3104 (3)	Animal Genetics & Breeding	I, II	BIOL 1105, STAT 2004
ALS 3204 (3)	Animal Nutrition & Feeding	II	ALS 2304, CHEM 1036
ALS 3304 (3)	Physiol of Repro	I,II	ALS 2304
APSC 3254 (3)	Animal Products	I, II	ALS 2304
APSC 4004 (2)	Issues In Animal Science	I,II	APSC 2004
AAEC 3404 (3)	Ag. Fin. Mgt.	II	AAEC 1005
<b>or</b> AAEC 3454 (3)	Small Bus. Mgt.	I	Junior Standing
<b>or</b> MGT 3304 (3)	Mgt. Theory & Prac.	I,II,III,IV	Junior Standing
<b>or</b> AAEC 2104 (3)	Personal Financial Planning	I,II	
APSC 4954 (2)	APSC Capstone Experience	I, II	APSC 2004, ≥75 credits; consent

**NOTE:** When courses are offered may change. Consult Timetable during Registration to check availability of courses.

**REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F UNLESS OFFERED P/F ONLY**

<u>Course &amp; No.</u>	<u>Title</u>	<u>Semester Taught</u>	<u>Prerequisite</u>
<b>III. Science Electives</b>			
ALS/BIOL 2404 (3)	Biotech. in a Global Society	II	BIOL 1105, 1106 & CHEM 1035, 1036
ALS/BIOL 4554 (3)	Neurochemical Regulation	II	ALS 2304 or BIOL 3404, CHEM 2535
ALS/BIOL 4574 (3)	Soc Behav Animals	II	BIOL 1106, ALS 3104
APSC 2464 (2)	Intro. Companion Animals	II	BIOL 1106
APSC 3304 (3)	Embryology	I (even yr)	ALS 2304
APSC 3464 (3)	Companion Animal Mgt.	I	APSC 2464
APSC/BCHM 4054 (3)	Genomics	II	BCHM 3114 or BCHM 4116 or BIOL 3774
APSC 4154 (3)	Advanced Animal Genetics	II	ALS 3104
APSC 4994 (var.)	Undergrad. Research	I,II,III,IV	Jr. Standing, QCA≥2.75
BCHM 2024 (3)	Biochemical Concepts	II	CHEM 2514 or 2535
BCHM 3114 (3)	Biochem for Biotech	I	CHEM 2536
BCHM 3124 (3)	Biochem Tech	I	CHEM 2546, CO:BCHM 3114
BCHM/BIOL 4784 (3)	Biotechnology Appli.	II	BCHM 3114, 24, or 4116, 4124
BIOL 2004 (3)	Intro Genetics	I,II	Freshman BIOL & CHEM
BIOL 2104 (3)	Cell & Molecular Biology	I,II,IV	BIOL 1106, CHEM 1036
BIOL 2604 (3)	Gen Microbiology	I,II,III	Freshman CHEM & BIOL
BIOL 2614 (1)	Gen Micro Lab	I,II,III	Co: BIOL 2604
BIOL 2704 (3)	Evolutionary Biology	I, II,III	BIOL 1105-06
BIOL 2804 (3)	Ecology	I,II,III	BIOL 1105-06
BIOL 3124 (3)	Cell Physiology	I,II	BIOL 2104, CHEM 2536
BIOL/ENT 3254 (3)	Med & Vet Entomology	II	BIOL 1105-1106
BIOL 3454 (3)	Parasitology	I	BIOL 2504
BIOL 3774 (3)	Molecular Biology	II	BIOL 2104 or ALS 3104
BIOL 4474 (3)	Ethology	I	BIOL 2504
BIOL/FST 4604 (4)	Food Microbiology	II	BIOL 2604, 2614
BIOL 4664 (3)	Virology	I	BIOL 2004, 2604, 2614
BIOL 4674, 4724 (3, 1)	Pathogenic Bact & Lab	I	BIOL 2004, 2104, 2604, 2614
BIOL 4704 (3)	Immunology	I,II,III	CHEM 2536 or BIOL 2104
BIOL 4774 (2)	Molecular Biol Lab	I,II	BCHM 3124 or BIOL 4634
CHEM 2535-45 (3)(1)	Org Chemistry & Lab	I,III	1 yr CHEM & Lab
CHEM 2536-46 (3)(1)	" " " "	II,IV	" " " " "
CHEM 4554 (3)	Drug Chemistry	II	CHEM 2536
DASC 4374 (3)	Physiol. Lactation	II	ALS 2304
<sup>ΔΔ</sup> ENGL 3764 (3)	Technical Writing	I,II, III, IV	Junior Standing
ENSC 3604 (3)	Fund. Env. Sci.	I,II	CHEM 1035 or BIOL 1105
FIW 2314 (3)	Wildlife Biology	II	BIOL 2504
FST 4504 (3)	Food Chemistry	I	CHEM 2536, BCHM 2024
HNFE 3804 (4)	Exercise Physiology	I	BIOL 2405, 2406 or ALS 2304
HNFE 3824 (3)	Kinesiology	I	BIOL 2405, 2406 or ALS 2304
MATH 1016 (3)	" " "	I,II,III,IV	MATH 1015
MATH 2015 (3)	Calculus w/Trig II	I,II,IV	MATH 1016
PHYS 2205-2215 (3)(1)	Gen Physics & Lab	I,II,III	MATH 1016: Lab: Co-2205
PHYS 2206-2216 (3)(1)	" " " "	I,II,IV	" " " " 2206
PSYC 2074 (3)	Animal Behavior	I,II	PSYC 2004
STAT 3615 (3)	Biological Stat.	I,II,III	
BMVS 4024 (2)	Diseases of Poultry	I	Alternate years
BMVS 4054 (3)	Lab Animal Mgt.	II	
BMVS 4074 (3)	Pharmacology	I	CHEM 2536

<sup>ΔΔ</sup> Only one of these three classes (ENGL 3764, 3774, 3104) can be counted toward a B.S. in APSC.

**NOTE: When courses are offered may change. Consult Timetable during Registration to check availability of courses.**

**REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F UNLESS OFFERED P/F ONLY**

<u>Course &amp; No.</u>	<u>Title</u>	<u>Semester Taught</u>	<u>Prerequisite</u>
<b>IV. Restricted Business Electives</b>			
<sup>+</sup> *AAEC 2104 (3)	Personal Financial Planning	I,II	
*AAEC 3004 (3)	Ag Prod & Consumption Econ.	II	AAEC 1005
*AAEC 3204 (3)	International Ag. Dev.	I	AAEC 1005, 1006
*AAEC 3314 (3)	Environmental Law	II	
*AAEC 3414 (3)	Farm, Coop & Agribus. Mgt.	II	AAEC 1005
*AAEC 3424 (3)	Food & Agribus. Mkt. Mgt.	II	AAEC 1005, 1006
<sup>+</sup> *AAEC 3454 (3)	Small Bus. Mgt.	I	Jr. Standing
*AAEC 3504 (3)	Mkt. Ag. Products	I	AAEC 1005
*AAEC 3514 (3)	Ag. Futures & Options	II	
*AAEC 3604 (3)	Ag. Law	I	
*AAEC 4204 (3)	Food & Agricultural Policy	I	AAEC 1005, 1006
*AAEC 4304 (3)	Env. & Sustain. Devel. Econ.	I,II	AAEC 1005
<sup>∇</sup> ACIS 1504 (3)	Intro. Bus. Info. Syst.	I,II,III,IV	
ACIS 2004 (3)	Survey of ACIS.	I,II,III	
ACIS 2115 (3)	Principles of ACIS.	I,II,III	Sophomore Standing
ACIS 2116 (3)	" " "	I,II,III,IV	ACIS. 2215
ACIS 2504 (3)	PC in Business	III,IV	(Majors only I,II) ACIS 1504
AHRM 2304 (3)	Family Financial Mgt.	I,II	
AHRM 2404 (3)	Consumer Rights	I,II	
APSC 3764 (2)	Livestock Merchandising	I	Jr. Standing
<sup>ΔΔ</sup> ENGL 3774 (3)	Business Writing	I, II, III, IV	Jr. Standing
FIN 3055 (3)	Legal Env. Business	I,II,III,IV	Jr. Standing
FIN 3104 (3)	Intro. to Finance	I,II,III,IV	ACIS 2115 or 2004, Jr. Standing
IS 2054 (3)	Intro. To World Politics	I	
LDRS 1016 (3)	Exploring Citizen Leadership	II	LDRS 1015
<sup>+</sup> MGT 3304 (3)	Mgt. Theory & Pract.	I,II,III,IV	Jr. Standing
MGT 3324 (3)	Organization Beh.	I,II,III,IV	Jr. Standing; MGT 3304
MGT 3334 (3)	Human Resource Leadership	I,II,IV	Jr. Standing; Co: MGT 3304
MKTG 3104 (3)	Mktg. Mgmt.	I,II,III,IV	Jr. Standing
MKTG 3504 (3)	Advertising	I,II	Jr. Standing, MKTG 3104
MKTG 4604 (3)	Retail Management	I,II	Jr. Standing, MKTG 3104

\* AAEC courses listed here may count as Agricultural Electives instead, but the course **cannot** double count.

<sup>∇</sup> Only one of these 3 classes (ALS 1514, ACIS 1504, CS 1004) may be counted toward a B.S. degree in APSC.

<sup>ΔΔ</sup> Only one of these three classes (ENGL 3764, 3774, 3104) can be counted toward a B.S. in APSC.

<sup>+</sup> One of these must be taken to satisfy the Departmental requirement. That course cannot double-count as a restricted elective.

**V. Restricted Agricultural Electives\***

<sup>∇</sup> ALS 1514 (2)	Microcomputers in Ag.	I	
ALS 2504 (3)	Animals in Society	I	
AEE 3014 (3)	Leadership Effectiveness ...	I, II	
AEE 4014 (3)	Intro to Cooperative Extension	I	
ALS 3134 (2)	Livestock & Environment	II	BIOL 1105, 1106, Jr. Standing
APSC 1524 (1)	Beginning Equitation	I	

<sup>∇</sup> Only one of these 3 classes (ALS 1514, ACIS 1504, CS 1004) may be counted toward a B.S. degree in APSC.

**Restricted Agricultural Electives continued on next page**

**NOTE: When courses are offered may change. Consult Timetable during Registration to check availability of courses.**

**REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F UNLESS OFFERED P/F ONLY****Semester****V. Restricted Agricultural Electives\* (Continued)**

<b>Course &amp; No.</b>	<b>Title</b>	<b>Taught</b>	<b>Prerequisite</b>
APSC 1624 (1)	Low Intermed. Equitation	II	Consent, APSC 1524
+APSC 2104 (1)	Poultry Laboratory	I	APSC 1454, 1464, Co: ALS 2304
+APSC 2114 (1)	Livestock Mgt. & Handling Lab	II	APSC 1454, 1464
+APSC 2124 (1)	Horse Management Lab	I,II	APSC 1454, 1464
APSC 2424 (3)	Intro. to Equine Industry	II	
APSC 2524 (1)	Intermediate Equitation	I,II	Consent, APSC 1624
APSC 2624 (1)	Beg. Equitation over Fences	I,II	Consent, APSC 2524
APSC 2824 (2)	Equine Conf. & Biomech.	I	
APSC/FST 3214 (4)	Meat Science	I	ALS 2304, Chem 1036 or consent
APSC 3234 (3)	Applied Ruminant Nutrition	I	ALS 3204
APSC 3404 (2)	Poultry Eval. & Selection	II	APSC 1454
APSC 3524 (1)	Intermed. Equit. over Fences	I,II	Consent, APSC 2624
APSC 3624 (1)	Advanced Equit. over Fences	I,II	Consent, APSC 3524
APSC 3724 (2)	Applied Equine Evaluation	II	APSC 2824 or equiv. experience
APSC 3754 (2)	Livestock Eval.	II	
APSC 3824 (2)	Equine Behavior & Training	I	APSC 2124
+APSC 4404 (4)	Poultry Management	I	APSC 2104, ALS 2304, 3104, 3304
+APSC 4414 (4)	Beef & Sheep Production	I	APSC 2114, ALS 3104, 3204, 3304
+APSC 4424 (4)	Horse Production & Mgt.	II	APSC 2124, 2424, ALS 3104, 3204, 3304
+APSC 4444 (3)	Swine Production	II	APSC 2114, ALS 3104, 3204, 3304
APSC 4154 (3)	Advanced Animal Genetics	II	ALS 3104
APSC 4554 (3)	Adv. Livestock Mgt.	II	AAEC 3404, AAEC 3454, APSC 4414 or 4444
BSE 2094 (1)	Intro Metal Fab	I,II	
BSE 2294 (3)	Animal Struct & Env	I, II	MATH 1016
BSE 2384 (3)	Soil & Water Res. Mgt.	I	MATH 1016
BSE 2484 (3)	Eng. & Power Train	I,II	MATH 1016
CSES 2444 (3)	Agronomic Crops	I	
CSES 3444 (3)	World Crops & Syst	II	Jr. Standing
CSES 4544 (3)	Forage Crop Ecology	II	ALS 3204
DASC 2474 (2)	DaSc & Industry	I,II	
DASC 3274 (3)	Applied Dairy Cattle Nutrition	I	
DASC 4304 (2)	Bovine Repro Pract	I	
DASC 4475 (3)	Dairy Enterprise Mgt.	I	DASC 2474 or AAEC 3404
DASC 4476 (3)	Dairy Enterprise Mgt	II	DASC 4475
ΔΔENGL 3104(3)	Intro to Professional Writing	I, II, III	ENGL 1106 or 1204H
ENT 2004 (3)	Insects and Human Society	I,II,III,IV	
FIW 2114 (3)	Prin. Fish. & Wild. Mgt.	I	BIOL 1106
FIW 4454 (3)	Vertebrate Pest Mgt.	II	Sr. Standing
FST 2214 (1)	Meat Sel & Grd Lab	I	APSC/FST 2754
GEOG 4074 (3)	Medical Geography	I	3 cr. GEOG or Consent
HORT 2224 (2)	Hort. Sci. & Industry	I	
PPWS 2004 (3)	Mysterious Mushrooms...	II	
PPWS 2104 (3)	Domesticating the Gene	I, II	BIOL 1005 or 1105

\* APSC 2964, 2974, 4964, 4974 are variable credit and offered I, II, III, IV (Consent required)

ΔΔ Only one of these three classes (ENGL 3764, 3774, 3104) can be counted toward a B.S. in APSC.

+ Grades in these courses count toward the in-major GPA.

**NOTE: When courses are offered may change. Consult Timetable during Registration to check availability of courses.**