

Facts About Required and Elective Courses for Animal and Poultry Sciences Majors for Students

Graduating in 2021 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 2020-2021 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 & No.</u> | <u>Title</u> | <u>Semester Taught</u> | <u>Prerequisite</u> | |
|--|-----------------------------|-----------------------------|----------------------------|------------------------------------|
| I. <u>Pathways to General Education</u> | | | | |
| MATH 1014 (3) | Precalc w/ Transcendental | F,S, SI | 2 units HS Alg. & P. Geom. | |
| STAT 2004 (3) | Intro. to Statistics | F,S | MATH 1014 or 1025 | |
| CHEM 1035-45 (3)(1) | General Chem & Lab | F,S,S1,S2 | MATH 1014 | |
| CHEM 1036-46 (3)(1) | " " " " | F,S,S1,S2 | CHEM 1035, 1045 | |
| ENGL 1105 (3) | Freshman English | F,S,S1,S2 | Placement | |
| ENGL 1106 (3) | " " | F,S,S1 | ENGL 1105 or Placement | |
| AAEC 1005** (3) | Econ Food & Fib Sys | F,S | | |
| AAEC 1006** (3) | " " " " " | F,S | | |
| ALS 3104 (3) | Animal Genetics & Breeding | F,S | BIOL 1105, STAT 2004 | |
| APSC 4004 (3) | Issues In Animal Science | F,S | APSC 2004 | |
| BIOL 1105 (3) | Principles of Biology | F,S1 | | |
| BIOL 1106 (3) | " " " " | S,S2 | | |
| | | | | |
| Area 2 (3)(3) Choose from approved list for <u>Pathways 2 (3)(3)</u> | | | | |
| Area 6 (1) Choose from approved list for <u>Pathways 6a,d (3)(3)</u> | | | | |
| Area 7 (3) Choose from approved list (can double count) for <u>Pathways 7(3)</u> | | | | |
| **ECON 2005,2006 can be taken in place of AAEC 1005,1006. ** ECON 2005 is a pre-req for ECON 2006. | | | | |
| | | | | |
| II. <u>Degree Core</u> | | | | |
| BIOL 1115 (1) | Principles of Biology Lab | F,S1 | | |
| BIOL 1116 (1) | " " " " | S,S2 | | |
| APSC 1454 (3) | Intro. to Anim. & Poultry. | F,S | | |
| APSC 1464 (1) | Intro. APSC Lab | F,S | Co: APSC 1454 or consent | |
| APSC 1504 (1) | APSC First Year Experience | F | | |
| APSC 2004 (1) | Anim. & Poul. Sci. Seminar | S | APSC 1504, 45 credit hours | |
| ALS 2304 (4) | Animal Physiology & Anatomy | F,S | BIOL 1106 | |
| ALS 3204 (3) | Animal Nutrition & Feeding | F,S | ALS 2304, CHEM 1036 | |
| ALS 3304 (3) | Physiology of Repro | F | ALS 2304 | |
| APSC 3254 (3) | Animal Products | *Not currently taught | ALS 2304 | |
| or | BIOL 2604 (3) | General Microbiology | F,S | BIOL 1105, 1106; CHEM 1036 |
| | AAEC 2104 (3) | Personal Financial Planning | F,S | |
| or | AAEC 2434 (3) | Foundations in Agribusiness | F,S | AAEC 1005 |
| or | AAEC 3454 (3) | Small Bus. Mgt. | S | AAEC 2434 or ACIS 2115 or MGT 3064 |
| or | MGT 3304 (3) | Mgt. Theory & Prac. | F,S,S1 | Junior Standing |
| | APSC 4954 (2) | APSC Capstone Experience | F | APSC 2004, ≥75 credits; consent |

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

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|--|--------------------------------|------------------------|---------------------------------------|
| III. <u>Agricultural/Applied Electives*</u> | | | |
| ALS 2504 (3) | Animals in Society | F | |
| ALCE 3014 (3) | Leadership Effectiveness ... | F | |
| APSC 1524 (1) | Beginning Equitation | F | |
| APSC 1624 (1) | Low Intermed. Equitation | S | Consent, APSC 1524 |
| +APSC 2104 (1) | Poultry Laboratory | S | APSC 1454, 1464, Co: ALS 2304 |
| +APSC 2114 (1) | Livestk Mgt. & Handling Lab | S | APSC 1454, 1464 |
| +APSC 2124 (1) | Horse Management Lab | F,S | APSC 1454, 1464 |
| +APSC 2164 (1) | Comp/Lab Animal Handling | F,S | APSC 1454, 1464 |
| APSC 2424 (3) | Intro. to Equine Industry | S | |
| APSC 2464 (2) | Intro. Companion Animals | S | BIOL 1106 |
| APSC 2524 (1) | Intermediate Equitation | F,S | Consent, APSC 1624 |
| APSC 2624 (1) | Beg. Equitation over Fences | F,S | Consent, APSC 2524 |
| APSC 2824 (2) | Equine Conf. & Biomech. | F | |
| APSC 3064 (3) | Comp/Lab Animal Science | F | ALS 2304 |
| APSC/DASC 3134 (3) | Animal Ag & Environment | S | |
| APSC/FST 3214 (3) | Meat Science | F | ALS 2304, Chem 1036 or consent |
| APSC/FST 3224 (1) | Meat Science Lab | F | |
| APSC 3334 (3) | Animal Welfare & Bioethics | S | APSC 1454, ALS 2304 |
| APSC 4514 (3) | Animal Growth & Develop. | S | ALS 2304 |
| APSC 3524 (1) | Intermed. Equit. over Fences | F,S | Consent, APSC 2624 |
| APSC 3624 (1) | Advanced Equit. over Fences | F,S | Consent, APSC 3524 |
| APSC 3724 (2) | Applied Equine Evaluation | S | consent |
| APSC 3754 (2) | Livestock Eval. | F | APSC 1454 |
| APSC 3824 (2) | Equine Behavior & Training | F | APSC 2124 |
| +APSC 4404 (4) | Poultry Management | F | APSC 2104, 3104, 3204, 3304 |
| +APSC 4414 (4) | Beef & Sheep Production | F | APSC 2114, ALS 3104, 3204, 3304 |
| +APSC 4424 (4) | Horse Production & Mgt. | S | APSC 2124, 2424, ALS 3104, 3204, 3304 |
| +APSC 4444 (3) | Swine Production | S | APSC 2114, ALS 3104, 3204, 3304 |
| +APSC 4464 (4) | Comp/Lab Anim. Care & Mgt. | S | APSC 2164, ALS 3104, 3204, 3304 |
| APSC 4554 (3) | Adv. Livestock Mgt. | S | AAEC 3404, 3454, APSC 4414 or 4444 |
| CSES 2444 (3) | Agronomic Crops | F | |
| CSES 3444 (3) | World Crops & Syst | S | |
| CSES 4544 (3) | Forage Crop Ecology | S | ALS 3204 |
| DASC 2474 (2) | DaSc & Industry | S | |
| DASC 3274 (3) | Applied Dairy Cattle Nutrition | F | ALS 3204 |
| DASC 4475 (3) | Dairy Enterprise Mgt. | S | DASC 2474 or AAEC 3404 |
| DASC 4476 (3) | Dairy Enterprise Mgt | F | DASC 4475 |
| ΔΔENGL 3104 (3) | Professional Writing | F,S | ENGL 1106 or 1204H or COMM 1016 |
| ENT 2004 (3) | Insects and Human Society | F,S | |
| FIW 2114 (3) | Prin. Fish. & Wild. Mgt. | F,S | BIOL 1106 |
| FIW 4454 (3) | Human & Wild Life Conflicts | S | Sr. Standing |
| GEOG 4074 (3) | Medical Geography | F | 3 cr. GEOG or Consent |
| HORT 2224 (2) | Hort. Sci. & Industry | F | |
| PPWS 2004 (3) | Mysterious Mushrooms... | F | |

* APSC 2964, 2974, 4964, 4974 are variable credits and offered F, S, S1, S2 (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.

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|-------------------------------|--------------------------------|------------------------|--------------------------------------|
| IV. Business Electives | | | |
| +*AAEC 2104 (3) | Personal Financial Planning | F,S | |
| +*AAEC 2434 (3) | Foundations in Agribusiness | F,S | AAEC 1005 |
| *AAEC 3004 (3) | Ag Prod & Consumption Econ. | F,S | AAEC 1005 |
| *AAEC 3204 (3) | International Ag. Dev. | S | AAEC 1005, 1006 |
| *AAEC 3314 (3) | Environmental Law | S | |
| +*AAEC 3454 (3) | Small Bus. Mgt. | S | AAEC 2434 or ACIS 2115 or MGT 3064 |
| *AAEC 3504 (3) | Mkt. Ag. Products | F | AAEC 1005 |
| *AAEC 3514 (3) | Ag. Futures & Options | F | AAEC 1005, 1006, 2434 |
| *AAEC 3604 (3) | Ag. Law | F | |
| *AAEC 4204 (3) | Food and Agricultural Policy | F | AAEC 1005, 1006 |
| *AAEC 4324 (3) | Rural & Regional Dev Policy | F | AAEC 1005, 3004 |
| *AAEC 4404 (3) | Ag Mgt & Prob Solv | F,S | AAEC 3454 |
| *AAEC 4424 (3) | Adv. Ag Financial Mgt | F | AAEC 1005, 2434, FIN 3104 |
| ∇ ACIS 1504 (3) | Intro. Bus. Info. Syst. | F,S,S1,S2 | |
| ACIS 2115 (3) | Principles of ACIS. | F,S,S1 | |
| ACIS 2116 (3) | " " " | F,S,S1,S2 | ACIS. 2215 |
| ACIS 2504 (3) | PC in Business | F,S,S2 | (Majors only I,II) ACIS 1504 |
| AHRM 2404 (3) | Consumer Rights | F,S | |
| APSC 3764 (2) | Livestock Merchandising | F | Minimum of 45 hours |
| APSC 4554 (3) | Adv. Livestock Enterprise Mgt. | S | AAEC 3454 or 3404, APSC 4414 or 4444 |
| CONS 2304 (3) | Family Financial Mgt. | F,S | |
| ΔΔ ENGL 3774 (3) | Business Writing | F,S,S1,S2 | Jr. Standing |
| FIN 3054 (3) | Legal Env. Business | F,S,S1,S2 | Jr. Standing |
| FIN 3104 (3) | Intro. to Finance | F,S,S1 | ACIS 2115 or 2004, Jr. Standing |
| IS 2054 (3) | Intro. To World Politics | F,S,S1,S2 | |
| LDRS 1016 (3) | Exploring Citizen Leadership | S | LDRS 1015 |
| +MGT 3304 (3) | Mgt. Theory & Practice. | F,S,S1 | Jr. Standing |
| MGT 3324 (3) | Organization Behavior | F,S | Jr. Standing; MGT 3304 |
| MGT 3334 (3) | Human Resource Leadership | F,S | Jr. Standing; MGT 3304 |
| MKTG 3104 (3) | Mktg. Mgmt. | F,S,S1 | Jr. Standing |
| MKTG 3504 (3) | Advertising | F,S | MKTG 3104 |
| MKTG 4604 (3) | Retail Management | S | Jr. Standing, MKTG 3104 |

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

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

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

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

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 & No.</u> | <u>Title</u> | <u>Semester Taught</u> | <u>Prerequisite</u> |
|------------------------------------|------------------------------|------------------------|-------------------------------------|
| V. <u>Science Electives</u> | | | |
| ALS/BIOL 2404 (3) | Biotech. in a Global Society | S | BIOL 1105, 1106 & CHEM 1035, 1036 |
| ALS/BIOL 4554 (3) | Neurochemical Regulation | S | ALS 2304 or BIOL 3404, CHEM 2535 |
| ALS/BIOL 4574 (3) | Soc Behavior of Animals | S | BIOL 1106, ALS 3104 or BIOL 2004 |
| ALS 3314 (1) | Physiology of Repro Lab | S | ALS 2304 |
| APSC 3064 (3) | Comp/Lab Animal Science | F | ALS 2304 |
| APSC 3304 (3) | Embryology | *Not currently taught | ALS 2304 or BIOL 3404 |
| APSC 4224 (3) | Equine Exercise Physiology | S | ALS 2304 |
| APSC/DASC 4304 (2) | Bovine Repro. Practices | F | ALS 2304 |
| APSC 4994 (var.) | Undergrad. Research | F,S,S2 | Jr. Standing, QCA≥2.75 |
| BCHM 2024 (3) | Biochemical Concepts | F,S | CHEM 2514 or 2535 |
| BCHM 3114 (3) | Biochemistry for Biotech | F | CHEM 2536 |
| BCHM 4115 (4) | General Biochemistry | F | CHEM 2535, CHEM 2536 (Min C-in ea.) |
| BIOL 2004 (3) | Intro Genetics | F,S,S1 | BIOL 1105, 1106; CHEM 1036 |
| BIOL 2504 (3) | Zoology | S | BIOL 1105, 1106 |
| BIOL 2604 (3) | Gen Microbiology | F,S,S1 | BIOL 1105, 1106; CHEM 1036 |
| BIOL 2614 (2) | Gen Micro Lab | F,S,S1 | Co: BIOL 2604 |
| BIOL 2704 (3) | Evolutionary Biology | F,S,S1 | BIOL 1105-06 |
| BIOL 2804 (3) | Ecology | F,S,S1,S2 | BIOL 1105-06 |
| BIOL/ENT 3254 (3) | Med & Vet Entomology | S | BIOL 1105-1106 |
| BIOL 3454 (4) | Parasitology | F | BIOL 2504 |
| BIOL 3774 (3) | Molecular Biology | F | BIOL 2104 or ALS 3104 |
| BIOL/FST 3604 (4) | Food Microbiology | S | BIOL 2604, 2614 |
| BIOL 4664 (3) | Virology | F | BIOL 2004, 2604, 2614 |
| BIOL 4674, 4724 (3, 1) | Pathogenic Bacteria & Lab | F | BIOL 2004, 2104, 2604, 2614 |
| BIOL 4704 (3) | Immunology | S,S1 | CHEM 2536 or BIOL 2104 |
| CHEM 2535-45 (3)(1) | Org Chemistry & Lab | F,S,S1 | 1 yr CHEM & Lab |
| CHEM 2536-46 (3)(1) | " " " " | F,S,S2 | CHEM 2535, 2545 |
| CHEM 4554 (3) | Drug Chemistry | S,S1 | CHEM 2536 |
| DASC 4374 (3) | Physiology Lactation | S | ALS 2304 |
| ΔΔ ENGL 3764 (3) | Technical Writing | F,S,S1,S2 | Junior Standing |
| ENSC 3604 (3) | Fund. Env. Sci. | F | CHEM 1035 or BIOL 1105 |
| FIW 2314 (3) | Wildlife Biology | S | BIOL 2504 or BIOL 2704, FIW 2114 |
| FST 4504 (3) | Food Chemistry | F | CHEM 2536, BCHM 2024 |
| HNFE 3804 (4) | Exercise Physiology | F,S | BIOL 2405, 2406 or ALS 2304 |
| HNFE 3824 (3) | Kinesiology | F | BIOL 2405, 2406 or ALS 2304 |
| MATH 1025 (3) | Elementary Calculus | F,S,S2 | |
| MATH 1026 (3) | Elementary Calculus | F,S,S2 | MATH 1025 |
| NEUR 2025 | Intro to Neuroscience | F,S | BIOL 1005 or BIOL 1105 |
| NEUR 2026 | Intro to Neuroscience | F,S | NEUR 2025 |
| NEUR 3044 | Cell Mol Neuroscience | F,S | NEUR 2026, CHEM 1036 |
| NEUR 4044 | Neuroscience Sr. Seminar | F,S | NEUR 3044, NEUR 3084 |
| PHYS 2205-2215 (3)(1) | Gen Physics & Lab | F,S,S1 | MATH 1016 or 1025; Lab: Co-2205 |
| PHYS 2206-2216 (3)(1) | " " " " | F,S,S1,S2 | PHYS 2205 or 2305; Lab: Co-2206 |
| PSYC 2074 (3) | Animal Behavior | S2 | PSYC 1004 or 2004 |
| STAT 3615 (3) | Biological Stat. | F,S,S1,S2 | |
| BMVS 4024 (2) | Diseases of Poultry | Varies | Varies |
| *BMVS 4054 (3) | Lab Animal Mgt. | Varies | Varies |
| BMVS 4064 (3) | Intro to Medical Physiology | F | |

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*This as a free elective if companion/lab animal emphasis.