

**Facts About Required and Elective Courses for Animal and Poultry Sciences Majors****\*\*\* 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 check sheet for restrictions on elective courses. Timetable and catalog material is on the HOKIE SPA.

| <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. |
| MATH 1016 (3)   | " " "                      | I,II,III,IV            | MATH 1015                  |
| BIOL 1105-1115 (3)(1)                                   | Prin Biol & Lab            | I                      |                            |
| BIOL 1106-1116 (3)(1)                                   | " " " "                    | II                     |                            |
| BIOL 2604 (3)   | Gen Microbiology           | I,II,III               | Freshman CHEM & BIOL       |
| BIOL 2614 (1)   | Gen Micro Lab              | I,II,III               | Co: BIOL 2604              |
| 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     |
| COMM 2004 (3)   | Public Speaking            | I,II,III,IV            | Sophomore standing         |
| <b>or</b> AEE 3634 (3)                                  | Comm. Ag in Speaking       | II                     |                            |
| 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 |
| ALS 2304 (4)  | Animal Physiol & Anat      | I,II                   | BIOL 1106                  |
| ALS 3104 (4)  | Animal Genetics & Breeding | I, II                  | BIOL 1106, MATH 1015       |
| APSC 3004 (2)   | APSC Seminar               | I,II                   | Junior Standing            |
| ALS 3204 (4)  | Animal Nutrition & Feeding | I,II                   | ALS 2304, CHEM 1036        |
| ALS 4304 (4)  | Physiol of Repro           | I,II                   | ALS 2304                   |
| *APSC 4404 (4)  | Poultry Management         | I                      | ALS 2304                   |
| *APSC 4414 (4)  | Beef Production & Ind.     | II                     | ALS 3104, 3204, 4304       |
| *APSC 4424 (4)  | Horse Production & Mgt.    | II                     | " " " "                    |
| *APSC 4434 (4)  | Sheep Production           | I                      | " " " "                    |
| *APSC 4444 (4)  | Swine Production           | I (Alt. Yrs.)          | " " " "                    |
| 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            |

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\* If more than two of these are taken, they count as Agricultural Electives.

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|---|------------------------------|------------------------|-----------------------------------|
| <b>III. Science Electives</b>                               |                              |                        |                                   |
| <b>REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F</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                         |
| APSC 3304 (3)   | Embryology                   | I (even yr)            | BIOL 1106                         |
| 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 2504 (3)   | General Zoology              | I,II,IV                | BIOL 1105-06                      |
| BIOL 2704 (3)   | Evolutionary Biology         | I, II                  | BIOL 1105-06                      |
| BIOL 2804 (3)   | Ecology                      | I,II                   | 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,III                  | BIOL 2504                         |
| BIOL 4504 (5)   | Histology                    | II                     | BIOL 3124 or consent              |
| BIOL/FST 4604 (4)   | Food Microbiology            | II                     |                                   |
| BIOL 4664 (3)   | Virology                     | I                      | BIOL 2004, 2604                   |
| BIOL 4674, 4724 (3, 1)                                      | Pathogenic Bact & Lab        | I                      | BIOL 2004, 2104, 2604, 2614       |
| BIOL 4704 (3)   | Immunology                   | I,II,III               | CHEM 2536                         |
| BIOL 4774 (2)   | Molecular Biol Lab           | I,II                   | BCHM 3124 or BIOL 4634            |
| CHEM 2535-45 (3)(1)   | Org Chemistry & Lab          | I,II,III               | 1 yr CHEM & Lab                   |
| CHEM 2536-46 (3)(1)   | " " " "                      | II,III,IV              | " " " " "                         |
| CHEM4554 (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                         |
| FIW 2314 (3)  | Wildlife Biology             | II                     | BIOL 2504                         |
| FST 4504 (3)  | Food Chemistry               | I                      | CHEM 2536, BCHM 2024              |
| GEOG 4074 (3)   | Medical Geography            | I                      | 3 cr. GEOG or Consent             |
| HNFE 3804 (4)   | Exercise Physiology          | I,IV                   | BIOL 2405, 2406 or ALS 2304       |
| HNFE 3824 (3)   | Kinesiology                  | I,III                  | BIOL 2405, 2406 or ALS 2304       |
| MATH2015 (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.

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**REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F**

| <u>Course &amp; No.</u>                  | <u>Title</u>                             | <u>Semester Taught</u> | <u>Prerequisite</u>                |
|--|--|------------------------|------------------------------------|
| <b>IV. Restricted Business Electives</b> |  |                        |                                    |
| ♦*AAEC 2424 (3)                          | Coop. & Impact on Hum. Cond. I           |                        |                                    |
| *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 3404 (3)                           | Ag. Fin. Mgt II                          |                        | AAEC 1005, 1006                    |
| *AAEC 3414 (3)                           | Farm, Coop & Agribus. Mgt. II            |                        | AAEC 1005                          |
| *AAEC 3424 (3)                           | Food & Agribus. Mkt. Mgt. II             |                        | AAEC 1005, 1006                    |
| *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                          |
| ∇ 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)                 |
| AHRM 2304 (3)                            | Family Financial Mgt. I,II               |                        |                                    |
| AHRM 2404 (3)                            | Consumer Rights I,II                     |                        |                                    |
| ∇ ALS 1514 (2)                           | Microcomputers in Ag. I                  |                        |                                    |
| APSC 3764 (2)                            | Livestock Merchandising I                |                        | Jr. Standing                       |
| ∇ CS 1004 (3)                            | Computer Literacy I,II,IV                |                        |                                    |
| ΔΔ ENGL 3104(3)                          | Intro to Professional Writing I, II, III |                        | ENGL 1106 or 1204H                 |
| ΔΔ 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 2055 (3)                              | World Politics & Economy I               |                        |                                    |
| LDRS 1016 (3)                            | Exploring Citizen Leadership II          |                        |                                    |
| 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        |                        |                                    |
| MKTG 3104 (3)                            | Mktg. Mgmt. I,II,III,IV                  |                        | Jr. Stand., ECON 2116 or AAEC 1005 |
| MKTG 3504 (3)                            | Advertising I,II                         |                        | Jr. Standing                       |
| MKTG 4604 (3)                            | Retail Management I,II                   |                        | Jr. Standing, MKTG 3104            |
| MN 4005 (3)                              | Leadership and Management/Ethics I,II    |                        | SOC 1004                           |
| STAT 2004 (3)                            | Intro Stat. I,II,III                     |                        | MATH 1015                          |
| UAP 4764 (3)                             | Internat'l Dev. Policy & Planning I      |                        | Jr. Standing                       |

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

♦ Course may count as Business **or** Agricultural Electives if not needed as an Area 2, but **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.

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**REMINDER: ALL RESTRICTED ELECTIVES MUST BE TAKEN A-F**

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|--|--------------------------------|------------------------|--------------------------------|
| <b>V. Restricted Agricultural Electives*</b> |                                |                        |                                |
| ALS 2504 (3)                                 | Animals in Society             | II                     |                                |
| AEE 3014 (3)                                 | Leadership Effectiveness ...   | I, II                  |                                |
| AEE 3074 (3)                                 | Proc of Ag Const               | II                     | Jr. Standing                   |
| AEE 4014 (3)                                 | Intro To Cooperative Extension | I                      |                                |
| ALS 3134 (2)                                 | Livestock & Environment        | II                     | BIOL 1105, 1106                |
| APSC 1524 (1)                                | Beginning Equitation           | I                      |                                |
| APSC 1624 (1)                                | Low Intermed. Equitation       | II                     | Consent                        |
| APSC 2424 (3)                                | Intro. to Equine Industry      | II                     |                                |
| APSC 2464 (2)                                | Care of Companion Animals      | II                     | BIOL 1106                      |
| APSC 2524 (1)                                | Intermediate Equitation        | I,II                   | Consent                        |
| APSC 2624 (1)                                | Beg. Equitation over Fences    | I,II                   | Consent                        |
| APSC 2724 (2)                                | Equine Behav. & Training       | I                      |                                |
| APSC/FST 3214 (4)                            | Meat Science                   | I (even yrs.)          | ALS 2304, Biol 2604, Chem 1015 |
| APSC 3404 (2)                                | Poultry Eval. & Selection      | II                     | APSC 1454                      |
| APSC 3524 (1)                                | Intermed. Equit. over Fences   | I,II                   | Consent                        |
| APSC 3624 (1)                                | Advanced Equit. over Fences    | I,II                   | Consent                        |
| APSC 3724 (2)                                | Equine Evaluation              | I                      |                                |
| APSC 3754 (2)                                | Livestock Eval.                | II                     |                                |
| APSC 4504 (3)                                | Poultry Production Syst. Mgt.  | II (odd years)         | APSC 4404                      |
| APSC 4994 (var)                              | Undergrad. Research            | I,II,III,IV            | Jr. Standing; QCA $\geq$ 2.75  |
| 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                      |                                |
| DASC 3274 (3)                                | Applied Dairy Cattle Nutrition | I                      | ALS 3204                       |
| DASC 4304 (2)                                | Bovine Repro Pract             | I                      | ALS 4304                       |
| DASC 4475 (3)                                | Dairy Enterprise Mgt.          | I                      | DASC 2474, 3274                |
| DASC 4476 (3)                                | Dairy Enterprise Mgt           | II                     | DASC 4475                      |
| ENGR 1814 (3)                                | Energy, Rsrce & Envt.          | I,II                   |                                |
| 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                   |
| FOR 3784 (3)                                 | World Forests & For. Products  | I                      |                                |
| FST 2214 (1)                                 | Meat Sel & Grd Lab             | I                      | APSC/FST 2754                  |
| FST 3224 (2)                                 | Poultry Proc. & Prod.          | I                      | Odd years                      |
| GEOS 1024 (3)                                | Resources Geology              | I,II                   |                                |
| HORT 2124 (3)                                | Home Horticulture              | II                     |                                |
| HORT 2224 (3)                                | Intro to Hort                  | I                      |                                |
| PPWS 2104 (3)                                | Domesticating the Gene         | I, II                  | BIOL 1005 or 1105              |
| UAP 3344 (3)                                 | Global Environmental Issues    | II                     |                                |

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

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