## College of Agriculture and Life Sciences <br> Bachelor of Science <br> Major in Animal and Poultry Sciences <br> For student date of entry under UG Catalog 2023-2024

| Pathways General Education |  | 47 Credits |
| :---: | :---: | :---: |
| Course \& Number | Title | Credits |
| Concept 1: Discourse (9 credits) |  |  |
| 1F: ENGL 1105-1106 | First-Year Writing | 3 |
| 1A: APSC 4004 ${ }^{++}$ | Contemporary Issues in the Animal Sciences | 3 |
| Concent 2: Critical Thinking in the Humanities (6 credits) |  |  |
| Approved Courses | Select from Timetable | 3 |
| Concept 3: Reasoning in the Social Sciences (6 credits) |  |  |
| AAEC 1005 | Economics of the Food and Fiber Systems |  |
| or ECON 2005 | Principles of Economics |  |
| and an Approved Course | Select from Timetable |  |
| Concept 4: Reasoning in the Natural Sciences (8 credits) |  |  |
| BIOL 1105, 1106 | Principles of Biology | $3 \ldots 3$ |
| BIOL 1115, 1116 | Principles of Biology Lab | 1 |
| Concept 5: Ouantitative and Computational Thinking (9 credits) |  |  |
| 5F: MATH 1014 or MATH $1025^{\#}$ | Precalculus with Transcendental Functions <br> Elementary Calculus (this course is a prereq for PHYS 2205) | 3 |
| 5F: STAT 2004 ${ }^{\#}$ or STAT 3005\# | Introductory Statistics or Statistical Methods | 3 |
| 5A: ALS 3104 ${ }^{\text {+ }}$ | Animal Breeding and Genetics |  |
| Concept 6: Critique and Practice in Arts and Design (6 credits) |  |  |
| Approved Courses | Select from Timetable <br> 3 design and 3 arts OR 6 integrated design and arts |  |
| Concept 7: Critical Analysis of Identity and Equity in the United States (3 credits) |  |  |
| Approved Course | Select from the Timetable | 3 |
|  | Degree Core | 21 credits |
| Course \& Number | Title | Credits |
| CHEM 1035-1036 ${ }^{\text {\# , }}$, 1045-1046 ${ }^{\text {\# }}$ | General Chemistry, and General Chemistry Lab 3 $\qquad$ 3 <br> (These credits are not included in the in-major GPA) |  |
| APSC 1454 ${ }^{+}$ | Introduction to Animal and Poultry Science (a grade of C or better is required) | 3 |
| APSC 1464** | Animal and Poultry Science Lab | 1 |
| APSC 1504 ${ }^{+}$ | APSC First Year Experience | 1 |
| APSC 2004 ${ }^{+\#}$ | Animal and Poultry Science Seminar |  |
| ALS 2304 ${ }^{+\#}$ | Comparative Animal Physiology and Anatomy | 4 |
| ALS 3204*\# | Animal Nutrition and Feeding | 3 |

Courses used for Pathways 1-7 or Degree Core cannot be used for Major Requirements, Approved Restricted Electives, or Free Electives. Cannot double count courses used in section C and D under Major Requirements. At least 6 credits from section $C$ and/or section $D$ must be 4XXX.

| Major Requirements (variable number of credits) |  |
| :---: | :---: |
| Course \& Number | Title Credits |
| A. Economics Requirement (Select 1 course; $\mathbf{3}$ credits) |  |
| AAEC 1006 or 2104 or $2434^{\#}$ | Economics of the Food and Fiber Systems $3$ $\qquad$ <br> Personal Financial Planning or Foundation of Agribusiness |
| B. Experiential Learning Requirement (at least 1 credit) |  |
| APSC 4954 ${ }^{\text {\# }}$ <br> or 3954 or 4964 or 4974 or 4994 | Capstone Experience in Animal and Poultry Sciences 1 $\qquad$ Study Abroad or Field Study or Independent Study or Undergrad Research |

C. Species Requirement (select 1 course; $\mathbf{3}$ or $\mathbf{4}$ credits) ALL courses in this section ${ }^{\text {\#+ }}$

APSC 3504
APSC 3064
APSC 4404
APSC 4414
APSC 4424
APSC 4444
APSC 4464

Poultry Health and Science
Companion and Laboratory Animal Science
Commercial Poultry Enterprise Management
Beef and Sheep Production and Industry
Horse Production and Management
Swine Production
Companion and Laboratory Animal Health and
Management

3
3
4
4
4
3
4-
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## D. Animal Science/Management Requirement (select 4 courses; at least $\mathbf{1 2}$ credits) ALL courses in this section ${ }^{\#+}$

ALS 3304
ALS 4554
ALS 4574
APSC 3134
APSC 3214
APSC 3254
APSC 3304
APSC 3334
APSC 3434
APSC 3504
APSC 3064
APSC 4054
APSC 4124
APSC 4204
APSC 4324
APSC 4404
APSC 4414
APSC 4424
APSC 4444
APSC 4464
APSC 4514
APSC 4554
DASC 3274
DASC 3474
DASC 4174
DASC 4374
DASC 4384
DASC 4475
DASC 4476

Physiology of Reproduction
Neurochemical Regulation
Social Behavior of Birds and Mammals
Animal Agriculture and the Environment
Principles of Meat Science
Animal Products
Embryology
Animal Welfare and Bioethics
Host Microbe Interactions
Poultry Health and Science
Companion and Laboratory Animal Science
Genomics
Equine Health and Disease
Advanced Equine Nutrition and Feeding
Equine Reproduction and Neonatal Care
Commercial Poultry Enterprise Management
Beef and Sheep Production and Industry
Horse Production and Management
Swine Production
Companion and Laboratory Animal Health and Management
Animal Growth and Development
Advanced Livestock Enterprise Management
Applied Dairy Cattle Nutrition
Dairy Information Systems
Applied Dairy Cattle Genetics
Physiology of Lactation
Mammary Immunology
Dairy Enterprise Management I
Dairy Enterprise Management II


[^0]Choose courses from the list of approved restricted electives to equal at least 21 credits. Any courses used to satisfy Pathways 1-7, the Degree Core, or Major Requirements cannot also be used as Approved Restricted Electives.

All restricted electives must be taken on an A-F basis unless offered P/F only.
2964, 2974, 2984, 2994, 3954, 3964, 3984, 4964, 4974, 4984 and 4994 courses will be considered on a case-by-case basis
Enrollment in specific courses listed below is not guaranteed. Consult with your advisor when choosing restricted electives.
At least 6 credits of Approved Restricted Electives must be 4XXX.
Approved Restricted Electives\#
21 Credits

| Course \& Number | Title | Credits |
| :--- | :--- | :--- |
| AAEC 2104 | Personal Financial Planning | 3 |
| AAEC 2434 | Foundations of Agribusiness | 3 |
| AAEC 3XXX \& higher |  |  |
| ACIS 1504 | Intro to Bus Analytics \& BI | 3 |
| ACIS 2XXX \& higher |  | 3 |
| AHRM 2404 | Consumer Rights |  |
| ALCE 3XXX \& higher |  |  |
| ALS 2XXX \& higher |  |  |
| APSC 2XXX \& higher |  |  |
| BCHM 2XXX \& higher |  |  |
|  <br> higher (except <br> 3404) |  |  |
| BIT 2XXX \& higher |  |  |
| BMVS 4XXX <br> (except 4054, 4064) |  |  |
| BSE 2XXX \& higher |  |  |
| CHEM 2XXX \& higher |  |  |$\quad$|  |
| :--- |
|  <br> higher |
| CONS 2304 |
| CSES 2XXX \& higher |
| Finances |


| ENSC 3XXX |  |  |
| :--- | :--- | :--- |
| ENT 2XXX \& higher |  |  |
| FIN 3XXX \& higher |  |  |
| FIW 2XXX \& higher |  |  |
| FST 2XXX \& higher |  |  |
| GEOG 4XXX | Foods, Nutrition \& Exercise | 3 |
| HNFE 1004 | Exploring Citizen <br> Leadership |  |
| HNFE 2XXX \& higher |  | 3 |
| HORT 2XXX \& higher |  |  |
| HTM 2XXX \& higher |  |  |
| IS 2XXX \& higher |  |  |
| LDRS 1016 |  |  |
| MATH 1025 and higher |  |  |
| MGT 3XXX \& higher |  |  |
| MKTG 3XXX \& higher |  |  |
| NEUR 2XXX \& higher |  |  |
| PHS 4XXX |  |  |
| PHYS 2XXX \& higher <br> (except 2074, 2325, <br> 2326) |  |  |
| PPWS 2XXX \& higher |  | Animal Behavior |
| PSYC 2074 |  |  |
| STAT 3XXX \& higher |  |  |

\#Some of these courses may have pre-requisites or co-requisites. Consult the course catalog.

| List Specific Courses from the Above List |  |  |
| :--- | :--- | :--- |
| Course \&Number | Title | Credit |
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| :--- | :--- | :--- |
| Course \& Number | Title | Credit |
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Any courses not used to satisfy one of the requirements above will be free electives.
Free Electives (variable, to total at least 120 credits for the degree)

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| :--- | :--- | :--- |
| Course \& Number | Title | Credits |
|  |  |  |
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[^1]Graduation Requirements: In addition to Required Courses listed on the first page, each student must complete Major Requirements, Restricted Electives, and Free Electives listed on pages 2 and 3 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 included IN-MAJOR are:
Degree Core courses on page 1, except for CHEM 1035-1036 and CHEM 1045-1046
APSC 4004 and ALS 3104 in the Pathways General Education on page 1
Courses in sections C and D under Major Requirements on page 2
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 Pathway to General Education and Degree Core, and at least 1 course from section C under Major 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 Pathway to General Education 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.

[^2]
[^0]:    ${ }^{+}$These courses are included in the in-major GPA calculation;
    \#These courses have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.

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