Student Handbook
Undergraduate Programs
Department of Animal Sciences

August 2022

Purdue University
Department of Animal Sciences
Hobart & Russell Creighton Hall of Animal Sciences
West Lafayette, IN 47907
www.ag.purdue.edu/ansc
Introduction

Welcome to Purdue University and the Department of Animal Sciences. This handbook has been prepared to help you understand the requirements for your major, give guidance for selecting various elective courses that would be useful for life-long learning, and provide information for career opportunities. Developed by Professor Mark A. Diekman in 2000, this is the 22nd printing of this handbook and includes the College of Agriculture core requirements for students matriculating for the fall 2022 semester. We are excited to begin the final transition this academic year to our new Animal Sciences curriculum that will focus on five concentrations and introduce more hands-on learning opportunities for our students.

The Department has the largest enrollment of undergraduate students in the College of Agriculture, with more than 657 students as of Fall 2021. The undergraduate program exemplifies one of the department's greatest strengths. Faculty and staff who are engaged in undergraduate teaching clearly have great dedication to this mission and discuss it with insight and thoughtfulness. Animal Sciences students at Purdue are beneficiaries of a strong culture of commitment to undergraduate education by the faculty. The attitude is well-articulated in the department’s teaching and advising mission statement:

*Our primary teaching mission is to instill knowledge of the biology, production, products, and well-being of animals and their contribution to society. We must conscientiously help students develop their communication and mathematical, interpersonal, analytical and problem-solving skills. We are committed to the creation of an environment that promotes intellectual development, especially in providing undergraduate research opportunities, increasing international awareness and interest, and enhancing an intellectual environment for both students and faculty. We are devoted to making students well aware of the importance of continued professional growth and life-long learning as they prepare for an exciting animal science career.*

If you have concerns at any time, please do not hesitate to contact me or Mrs. Ashley York (ashleyyork@purdue.edu), Coordinator of Academic Advising and Student Services. Boiler Up!

Sincerely,

Elizabeth Karcher
Associate Professor
Undergraduate Programs Coordinator
Email: ekarcher@purdue.edu
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Animal Sciences Research and Education Center (ASREC)

The mission of the Animal Sciences Research and Education Center (ASREC) is to provide animals, facilities, and labor to conduct research, provide instruction and assist in extension education activities. Research trials vary from basic to applied and involve many disciplines: nutrition, physiology, behavior, genetics, reproduction, animal health, and product quality. Faculty utilize ASREC to facilitate teaching several Animal Sciences courses and to help provide hands-on experience for students. Some extension education activities held at ASREC are Swine Day, Lambing School, Animal Sciences Workshop for Youth, and 4-H and FFA judging. The Center hosts nearly 100 tours annually with an estimated 2,500 visitors.

The land base for ASREC consists of 1,515 contiguous acres of highly productive prairie soils. There are five separate tracts that were acquired between 1968 and 1987. The Research Center, north of Montmorenci, is adjacent to the northwest corner of the Agronomy Research Center. The relocation of animal units to the current location began in 1968. The first buildings (1969 and 1970) were for swine and poultry. The feed mill was built in the mid-70's and, in 1983, state funds were appropriated for construction of the other animal facilities. Relocation was completed in 1988 for beef, dairy, poultry, sheep, and swine. Twelve quarter-acre ponds were constructed for Aquaculture in 1997. In 1996, the USDA constructed a 10,000 square foot facility for scientists to identify how animals perceive and respond to their environment.

Each animal unit, feed mill, and farm operations has a manager and full-time employees. Additionally, there is a coordinator and an account clerk at the center making a total of 43 full-time employees. Student part-time employees average over 800 hours per week. They are an integral part of our work force, and their experience also provides them with valuable training. If a student is interested in working at a farm unit during the school year or summer, they should contact the unit manager directly.

Aquaculture Unit

Robert Rode, Mgr.; Phone 496-7910

This facility is used for intensive research efforts in nutrition, reproduction, and genetics with new and established aquaculture species. The facility is a 7,400 square foot building and consists of a 4,700 square foot tank room, a 480 square foot laboratory, as well as an office, a conference room and a storeroom. Specific objectives of the research conducted at the Aquaculture Unit include: 1) establishing nutritional requirements and management procedures for rearing aquatic species in Indiana; 2) examining alternative aquatic species for potential as new sources of revenue to the State of Indiana; 3) eliminating seasonal spawning in commercial aquaculture species; 4) finding genetic methods of reducing or eliminating cannibalism in aquatic species; and 5) determining genetic and environmental regulators of egg and milt production.
Beef Unit
Brian DeFreese, Mgr.; Phone 496-7922

The purpose of the Beef Unit is to provide cattle and facilities for research in nutrition, reproductive physiology, genetics, growth and development and meat science. Also, it is used extensively for undergraduate teaching labs and extension programs. Facilities at the ASREC complex were completed in 1986. Typically, at least 150 cows as well as 75 -100 bred heifers and 75-100 heifer calves are maintained there. Most are Sim/ Angus cross cattle. All are bred at least once artificially to constantly improve economically relevant traits. Around 200 steers are fed out annually in the confined feeding barns.

Dairy Unit
Dr. Tom Cully, Mgr; Phone 494-5319

The dairy unit provides facilities needed to meet the research, teaching and extension demands of the Indiana dairy industry. Currently, 180 Holstein dairy cows and 30 dairy herd replacements are housed at the Animal Science Research and Educational Center. Lactating and dry cows are fed a total mixed ration formulated to meet nutrient requirements of animals. The milking parlor has a double eight-herringbone milking system, computerized automatic cow ID, milk meter system, automatic removal devices, back flush, stainless steel raceways, CIP equipment, fresh water flush and 3,000 gallon bulk milk tank. The cow holding and work area includes electronic scales for weighing animals, an area to catch and hold animals, additional space for demonstrations and classes and a central area for working and sorting of animals. The dairy facility includes tie-stalls, free-stalls and box stalls to house and manage animals based on research, teaching and extension needs. Animals are genomically tested and individual management records are maintained for each animal.

Poultry Unit
Jason Fields, Mgr.; Phone 496-7934

The poultry unit facilities support the Land-Grant mission of teaching, research and Extension. The research diversity includes nutrition, physiology, management and genetics. The unit manager and farm animal technician operate the unit employing student labor as needed to meet research labor demands. The poultry unit is equipped with Wi-Fi allowing for electronic data collection and video streaming. The hatchery building has seven NatureForm incubators each with a set capacity of 1,980 eggs and can be used for incubating chickens, ducks and turkeys. The grower building has 16 light-tight, environmentally separate rooms and a 12 ft. x 18 ft. laboratory. All rooms are thermostatically controlled and equipped with evaporative cooling pads. Each of the rooms can be used to house conventional cage or cage-free pullets, ducks, turkeys or other small numbers of poultry. The layer building has 16 environmentally separate, light-tight rooms, equipped with evaporative cooling pads. Laying hens can be housed in conventional cages, enriched colony cages or cage-free environments. Genetic populations, roosters and hens, can be housed in the facility as well as commercial table egg layers. Management II building has four light-tight, environmentally separate rooms that are
equipped with evaporative cooling pads. Three of the rooms have 12 pens that are 10 foot x 8 foot arranged in two rows of six pens with a central aisle. The pens have two doors and a movable partition that allows for variable pen size and/or doubling the number of birds per pen. The fourth room has battery brooders that can be used for nutrition work. This building is used for the rearing of broilers, turkeys and ducks.

Sheep Unit
Gerald R. Kelly, Mgr.; Phone 496-3048

The sheep unit provides facilities for intensive efforts in nutrition, reproduction, physiology, neuroendocrinology, and biomedical research, as well as providing animals for undergraduate teaching. The objectives are to improve the quality of animal protein and increase efficiencies of production. The breeding flock has 150 ewes lambing annually with the goal of 50 percent of the ewes in fall lambing as opposed to traditional spring lambing of all ewes.

Swine Unit
Brian Ford, Mgr.; Phone 496-3087

The mission of this unit is to provide swine for research in the areas of genetics, nutrition, physiology, and management and to provide animals for the undergraduate teaching and extension programs. The breeding herd is made up of 240 sows and 12 to 16 boars. Thirty-six litters are farrowed per month. The breeding program includes saving gilts from the herd while boars are purchased. Replacement gilts are from a rotational breeding program using Yorkshire and Landrace boars. Eighty percent of these white females are bred to terminal sires using either H X D or PIC line 405 boars.

USDA Livestock Behavior Lab
Phone 583-2691

Goals of this facility are to identify how animals perceive and respond to their environment and to find ways to minimize stress. The building has non-slip flooring with post holes every 8 feet so that many different mazes and pen arrangements can be arranged. This versatile facility is available for cognitive research by both USDA scientists and Purdue faculty.

Feed Mill
Mike Zeltwanger, Mgr.; Phone 496-3042

The feed mill provides feedstuffs and ingredients, and mixes diets for all animal and poultry units of the Department of Animal Sciences, plus other departments in the Colleges of Agriculture and Veterinary Medicine. The feed mill does not sell feed outside the University. Typically, all diets are custom-mixed to the formulas provided by our various researchers and managers. Approximately 210 tons of feed are manufactured monthly.
Outlying Animal Research Farms

Feldun-Purdue Agricultural Center (Feldun)
Jerry Fankhauser, Director; Phone 494-8368

The 1,400 acre Feldun property is located in Lawrence County near Bedford on the limestone derived soils of this part of southern Indiana. Feldun was the first Indiana "experiment station" established outside of Tippecanoe County. This center has only 275 acres of tillable land. The remaining acreage is used as pasture for the 235 herd cattle, which is in research studies by scientists of the Departments of Animal Sciences and Agronomy, and forested land. Feldun is also the site for the Indiana Beef Evaluation Program (IBEP) bull test station.

Southern Indiana-Purdue Agricultural Center (SIPAC)
Jerry Fankhauser, Director; Phone 494-8368

SIPAC is located in Dubois County near the Potoka Reservoir. This 1,300 acre center is situated on the difficult to manage sandstone and shale soils of southern Indiana which pose a continuing challenge for agricultural researchers. Since its establishment, SIPAC has been the scene of extensive experimental work on adapted grasses and legumes, livestock grazing trials, forage management, beef cattle winter feeding trials, aquaculture and forest management.
**Registration**

Each student is admitted to a school or division of the University and is registered for each session in a selected curriculum. This curriculum is a program of study covering the entire undergraduate or graduate career and is designed to satisfy the requirements for a baccalaureate or advanced degree. The student's schedule for each semester consists of registration of required and elective courses.

The semester-hour is the unit of University academic credit and represents approximately one hour of class attendance each week throughout a normal semester or its equivalent in total work for summer sessions. Any reference to credit hours, course credits, etc., shall be understood as referring to semester-hours.

Instruction is organized and administered as particular subject courses. The level of instruction is indicated by the catalog number. A course numbering system, which reflects the level of instruction, indicates the following:

- **00100-09900** -- Precollege, deficiency, or noncredit courses.
- **10000-29900** -- Lower-division courses normally scheduled for freshmen and sophomores.
- **30000-49900** -- Upper-division courses normally scheduled for juniors and seniors.
- **50000-59900** -- Dual-level courses normally scheduled for juniors, seniors, and graduate students.
- **60000-69900** -- Graduate-level courses designed for graduate students.

**Registration Checklist**

- Check “Registration Status & Time Ticket” in myPurdue for your exact time ticket.
- Ensure you don’t have any “HOLDS” that may prevent you from registering during your given time. You may check this in your myPurdue account, under Registration-Do I have any Holds.
- Make an appointment to see your academic advisor as soon as you are eligible to do so.
- Review your up-to-date degree progress via myPurduePlan. Verify accuracy of information. Discuss discrepancies with your advisor.
- Keeping your program requirements in mind, choose the classes you need or want to take. Will the times work together? Work out a tentative schedule and bring this with you to your registration appointment.
- Keep your appointment or cancel ahead of time.
- Check on myPurdue and make sure your addresses and phone numbers are correct to ensure that you will receive a bill and schedule in a timely manner.
- Pay your fees before the date printed on your invoice. Return your fee invoice even if the amount due is "0." If you do not, your registration will be cancelled and you probably will not get back in the same classes. Arrangements are possible through the Office of the Bursar to delay your fees if you cannot make the payment deadline.
Adding a Class

There are times when adding a course to your schedule is desirable after classes have already started. Classes may be added after the second week only under certain circumstances. See your academic advisor to initiate this process.

*Add deadlines for 16 week courses:*
- Week 1 - Advisor approval needed.
- Weeks 2-4 - Advisor and instructor approvals needed.
- Weeks 5-9 - Advisor, instructor, and department head approvals needed. Extenuating circumstances only.

Dropping a Class

Dropping a course is possible if you follow the deadlines listed below. Dropping a class may delay your graduation.

*Drop deadlines for 16 week courses:*
- Weeks 1-2 - Course is not recorded.
- Weeks 3-4 - Course is recorded with a grade of W. Advisor approval needed.
- Weeks 5-9 - Grade of W, WF or WN will be recorded. Advisor and instructor approvals are needed for students who are classified as a 3 or higher. Students who are classified as 0, 1, or 2 do not need instructor's approval; grade will automatically be a W. A W or WF does not enter into the student’s grade index.

Checklist for Graduating Seniors

Your efforts have paid off and you are almost done! Here are a few things that need your attention so that nothing comes between you and graduation.

- Apply to graduate in myPurdue (available up to three semesters ahead of time).
- If you have any concerns, check with your academic advisor early in the semester to verify that your degree requirements are being met. You may want to order a transcript so that you can clearly see your academic record by semester.
- Check degree progress in myPurduePlan. Email your advisor if you believe something is in error.
- Beware of senioritis. It's easy to be distracted. Check minimum grade point average and credit requirements for your plan of study.
- Make sure you have no holds (such as financial aid exit interview, or money owed for parking tickets, student health center services, library fines, lab breakage fees, etc.). You will not receive your degree until holds have cleared.
- Provide your current and future address to the Office of the Registrar via myPurdue or at Hovde Hall, Room 45.
- Midway through the semester, a graduation tab from the Office of the Registrar is available for you to order cap and gown and tickets needed for commencement activities.
Grades

Incomplete Work (Credit or Non-Credit Courses)

I  Incomplete; no grade; a record of work that was interrupted by unavoidable absence or other causes beyond a student's control, which work was passing at the time it was interrupted, and the completion of which does not require the student to repeat the course to obtain credit. The incomplete also may be used to delay the awarding of a grade in courses (e.g., self-paced courses, mastery courses, and special problems) the completion of which normally requires one semester, but the structure of which allows specified additional time. An instructor may require the student to secure the recommendation of the Dean of Students that the circumstances warrant a grade of incomplete. When an instructor reports a grade of I, they shall file in the departmental office a statement of the reason for the grade and what is required of the student to achieve a permanent grade (Form 60). They also shall indicate the grade the student has earned on the work completed and the weight to be given to the remainder of the work in computing a final, permanent grade. The student must achieve a permanent grade in the course no later than the end of the second subsequent semester of enrollment, or the I grade will revert to a failing grade (IF) and enter into the student’s grade index.

PI  Incomplete; no grade; same as I except that the student was enrolled under the pass/not-pass option.

SI  Incomplete; no grade; same as I except that the student was enrolled in a zero credit course.

Pass/Not-Pass Option

To provide students with the opportunity to broaden their educational foundations with minimal concern for grades earned, the pass/not-pass option is available. Students may register in the pass/not-pass option under certain conditions. A student classified as a sophomore or higher and who has a minimum of 2.0 graduation index may elect the pass/not-pass grading option. A maximum of 21 credits of elective courses under the pass/not-pass grading option can be used toward graduation requirements. Courses listed on a plan of study that are required by number (i.e., CHM 11100, AGRY 32000) cannot be taken as pass/not-pass. For ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Any elective course is eligible for consideration for pass/not-pass option.

A student enrolled in this option has the same obligations as one enrolled for a letter grade. A student enrolled in this option must earn a grade of A, B, or C to pass the course.
Directed Grades

The Registrar is directed to record the following grades and symbols under special circumstances:

- **W**: Withdrew: a record of the fact that a student was enrolled in a credit course and withdrew from the course after the second week.

- **WF**: Withdrew Failing: a record that a student, with a classification of 3 or higher, was enrolled in a credit course and withdrew from the course after the fourth week at which time, according to a statement from the instructor, the student was not passing in his or her work. A WF does not enter into the GPA index. A grade of WF may be directed by the Committee on Scholastic Delinquency and Readmissions.

- **WN**: Withdrew Not Passing: the same as WF for a credit course taken under the pass/not-pass except it does not affect index computations.

- **WU**: Withdrew Unsatisfactory: the same as WF for a zero credit course except that it does not affect index computations.

- **IF**: Unremoved Incomplete-Failing: for a credit course in which a student received an I grade, a directed record of the student's failure to achieve a permanent grade by the 12th week of the second subsequent semester of enrollment. This grade counts in all respects as a failing grade.

- **IN**: Unremoved Incomplete-Not Passing: for a credit course taken under the pass/not-pass option and in which the student received a PI grade. The same as an IF grade except that it does not affect index computations.

- **IU**: Unremoved Incomplete- Unsatisfactory: for a zero credit course in which a student received a SI grade. The same as an IF grade except that it does not affect index computations.

Good Standing

For purposes of reports and communications to other institutions and agencies and in the absence of any further qualification of the term, a student shall be considered in good standing unless they have been dismissed, suspended, or dropped from the University and has not been readmitted.
Scholastic Indexes

The scholastic standing of all students enrolled in programs leading to a degree is determined by three scholastic grade point averages (GPA): the semester GPA, the cumulative GPA and the program GPA.

1. The semester index is an average determined by weighting each grade received during a given semester by the number of semester hours of credit in the course.

2. The cumulative GPA for an undergraduate student is a weighted average of all grades received as an undergraduate student. With the consent of their academic advisor, a student may repeat a course not intended for repeated registrations. In the case of such a repeated course, only the most recent grade received shall be included in the cumulative GPA. Transfer credits from other colleges and universities may be used to fulfill degree requirements, but cannot be used to remove Purdue recorded grades from GPA calculations.

3. The program GPA is derived from a degree audit and will be used as a criterion to accept a student to a program during the process of Change of Degree Objective (CODO). The degree audit relative to the program to which a student transfers is used to determine the program grade point average. In a case where no courses of the initial program apply to the new program, the same criteria for acceptance may be used as for a student applying out of high school.

Sample GPA Calculation

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Grade</th>
<th>Credit Hours x Grade Weight =</th>
<th>Quality Points</th>
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<tbody>
<tr>
<td>AGR 10100</td>
<td>0.5</td>
<td>B</td>
<td>$0.5 \times 3.0$</td>
<td>1.5</td>
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<tr>
<td>AGR 11400</td>
<td>0.5</td>
<td>A+</td>
<td>$0.5 \times 4.0$</td>
<td>2.0</td>
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<tr>
<td>ANSC 24500</td>
<td>2</td>
<td>A-</td>
<td>$2 \times 3.7$</td>
<td>7.4</td>
</tr>
<tr>
<td>ANSC 10200</td>
<td>3</td>
<td>C+</td>
<td>$3 \times 2.3$</td>
<td>6.9</td>
</tr>
<tr>
<td>BIOL 11000</td>
<td>4</td>
<td>D</td>
<td>$4 \times 1.0$</td>
<td>4.0</td>
</tr>
<tr>
<td>CHM 11500</td>
<td>4</td>
<td>B+</td>
<td>$4 \times 3.3$</td>
<td>13.2</td>
</tr>
<tr>
<td>MA 16010</td>
<td>3</td>
<td>F</td>
<td>$3 \times 0.0$</td>
<td>0.0</td>
</tr>
<tr>
<td>ANSC 293</td>
<td>2</td>
<td>$P$</td>
<td>Not included</td>
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*ANSC 293 (P/NP)*

<table>
<thead>
<tr>
<th>Total:</th>
<th>19 Credit Hours</th>
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<tr>
<td>17 GPA Hours</td>
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*Semester GPA = Total Quality Points/ Total Semester Credit Hours*

Semester GPA = 35.0/17
Semester GPA = 2.0588124 = 2.06*
Cumulative GPA = Total Quality Points/ Total GPA Credit Hours
For example, if a student had 166.1 total quality points and 70 total GPA hours, their cumulative GPA would be:

Cumulative GPA = 166.1/70 = 2.372857 = 2.37

*GPA is rounded to the nearest hundredth.
†Note: If a course is taken with the pass/no-pass option, a grade will not be assigned and neither Quality Points nor GPA Hours will be accumulated. If the course is completed with a ‘P,’ both Passed Hours and Earned Hours will be accumulated, but those hours will not be used to calculate your semester or cumulative GPA.

Transfer Credits

If a student desires to transfer credits from another college or university, an official college transcript must be submitted to the Credit Evaluation Office in Hovde Hall. If coursework is accepted by Credit Evaluation, the credit is converted into terms of Purdue courses. The credit evaluation summary is then reviewed by Tim Kerr, Senior Assistant Dean of Academic Programs for Agriculture, and course(s) not applicable for credit in the College of Agriculture are indicated. Agricultural courses taken at non-land grant colleges are not evaluated by Credit Evaluation. Credit for agricultural courses may be established by obtaining the necessary signatures on Form 390. Grades are not transferred; only credits in courses are recorded. Only courses with grades of C- or higher are transferable. Credits will transfer from Purdue regional campuses if a passable grade is obtained and the grade is calculated in the cumulative GPA. It is highly recommended that if a student is considering taking courses at another college or university, the course equivalency at Purdue should be verified on the Purdue Transfer Credit Course Equivalency Guide (https://esa-oas-prod-wl.itap.purdue.edu/prod/bzwtxcrd.p_select_info).

Academic Probation and Dismissal (Drop)

A. Academic Probation
A student at Purdue University shall be placed on academic probation if their fall or spring semester or cumulative GPA at the end of any fall or spring semester is less than 2.0. A student on academic probation shall be removed from that standing at the end of the first subsequent fall or spring semester in which they achieve semester and cumulative GPAs equal to or greater than 2.0. Any grade change due to a reporting error will result in a recalculation of the GPA and determination of probation standing. Academic standing is assessed during Fall and Spring semesters only.

B. Academic Dismissal
A student on academic probation shall be dropped from the University at the close of any fall or spring semester in which their semester and cumulative GPA is less than a 2.0. Any grade change due to reporting error will results in recalculation of the index and determination of drop status.
C. Readmission
A student who is academically dropped from the University for the first time is not eligible to enroll for at least one fall and spring semester. A student who is academically dropped for the second time is not eligible to enroll for at least one year. A student dropped by this rule must apply to the appropriate office or readmission committee for the Purdue campus of choice. For more detailed information about the readmission, process visit the following website: https://www.admissions.purdue.edu/readmission/.

Withdrawal from the University
If you need to leave the University for the semester, you should officially withdraw through the Office of the Dean of Students in Schleman Hall. This process can be initiated via your mypurdue account- go to the Registration page, select ‘Withdraw from Purdue University,’ then complete the form. Failure to officially withdraw could result in failing grades leading to academic probation or drop status.

Registered students who find it necessary to cancel their registration prior to the beginning of classes, upon the recommendation of the Registrar, will receive a 100% refund of all fees and tuition.

Scholastic Recognition

Dean's List
At the conclusion of each semester, the Registrar shall indicate which undergraduate students are scholastically eligible to be included on the Dean's List. To qualify, one must:

1. Have at least 12 credit hours included in the cumulative GPA.
2. Have at least 6 hours included in the cumulative GPA.
3. Attain at least a 3.5 cumulative GPA.
4. Have at least a 3.0 current semester GPA.

Semester Honors
At the conclusion of each semester, the Registrar shall indicate which undergraduate students are scholastically eligible for Semester Honors. To be cited, one must:

1. Have at least 6 credit hours included in the semester GPA.
2. Attain at least a 3.5 semester GPA.
3. Have at least a 2.0 cumulative GPA.
Graduation with Distinction

1. A candidate for the professional and baccalaureate degree with distinction must have a minimum of 65 hours of credit earned at Purdue included in the computation of the cumulative GPA. A candidate for an associate degree with distinction must have a minimum of 35 hours of credit earned at Purdue included in the computation of the cumulative GPA.

2. The minimum graduation index for graduation with distinction in each school shall be no less than the 90th percentile of the cumulative GPAs of the graduates in each school, for the spring semester, provided that the index is at least 3.30. The minimum cumulative GPA so determined in the spring for each school shall be applied for graduation with distinction for the subsequent summer session and fall semester. In administering this rule, all baccalaureate engineering graduates will be considered as one school.

3. Of those graduates who qualify for distinction under these rules for the spring semester, the three-tenths of the baccalaureate graduates having the highest graduation indexes shall be designated as graduating with highest distinction, irrespective of the schools from which they graduate. The three-tenths of the spring associate degree graduates having the highest graduation indexes will be designated as graduating with highest distinction. The minimum cumulative GPAs so determined for graduation with highest distinction shall be applied for graduation with highest distinction for the subsequent summer session and fall semester.

Classification of Undergraduates

A student’s academic classification for an associate or bachelor’s degree shall be classified by numerals 1-8 according to the total number of credit hours of college work earned.

<table>
<thead>
<tr>
<th>Total Credits Earned</th>
<th>Semester Classification</th>
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<td>15 to 29</td>
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<tr>
<td>30 to 44</td>
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<td>45 to 59</td>
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<tr>
<td>60 to 74</td>
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<td>Junior</td>
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<tr>
<td>75 to 89</td>
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<tr>
<td>90 to 104</td>
<td>7</td>
<td>Senior</td>
</tr>
<tr>
<td>105 or more</td>
<td>8</td>
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</tr>
</tbody>
</table>

During the final registration period, the student is placed in candidate status after completing the graduation application via myPurdue. If the student is not registered at Purdue during the session that the student meets graduation requirements, the student must register for degree only via CAND 99200 and pay a processing fee. If the appropriate credits are transferred to Purdue by the
third week after the end of the semester, the degree is granted and the diploma is mailed to the student's address on file.

ASREC Animal Management Internship

The Purdue University Animal Science Research and Education Center (ASREC) undergraduate animal management internship offers students an academic opportunity to work for a period of time in an animal-related field while gaining credit toward graduation requirements. This internship will have the course classification of ANSC 49100. The Purdue ASREC is home to five livestock species (Beef, Sheep, Swine, Dairy, and Poultry) along with a feed mill equipped to handle diet formulation for all units. This 12-week program (offered: Fall, Spring, and Summer Semester) has been designed to provide students an opportunity to gain on-farm experience. No previous experience is required. The intern will work an average of 10 hours a week at the Purdue Animal Science farms, or the Boiler Butcher Block, where interns will be fully immersed in a hands-on learning environment. This program will help students utilize critical thinking skills in order to build upon the knowledge learned in the classroom. The goal is ensuring students leave this program more prepared for future endeavors in the animal industry. For the final week of the program, the student will create a small presentation summarizing the experiences gained during the internship program. Interested students can contact Dr. Stewart (krstewart@purdue.edu) for additional information.

Study Abroad

Purdue University offers students within all fields of study the opportunity to participate in international study programs in more than 50 countries: Argentina, Australia, Austria, Belgium, Brazil, Canada, Chile, Columbia, Costa Rica, Cuba, the Czech Republic, Denmark, the Dominican Republic, England, France, Germany, Ghana, Greece, Haiti, Honduras, Hungary, Iceland, Ireland, Israel, Italy, Japan, Laos, Malaysia, Martinique, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Scotland, Singapore, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Tanzania, Turkey, Vietnam, Wales, West Indies, and Zambia. In most programs, students earn Purdue credit for courses completed. Although the academic experience is rigorous, programs allow extensive contact with the local culture. Depending on the country where coursework was completed, grades or pass/no-pas credit may be granted.

Every effort is made to keep program costs as close as possible to the cost of study on the West Lafayette campus. Students eligible for financial aid may use forms of aid on approved programs. Students are responsible for their own airfare, board, room, books, and other personal expenses. Students may spend a year, a semester, a summer abroad, or a spring or winter break. Foreign language requirements vary from none to the advanced level. The language of instruction is English in more than 50 programs. Some programs are designed for students in specific areas of study; others are open to all Purdue students regardless of major.

For further information and application forms, contact the Programs for Study Abroad Office, International Programs, Room 105, Young Hall. Additional information also is available in the current General Information bulletin. Some study abroad programs focus on agriculture, and most
satisfy the overseas requirements of the College of Agriculture International Studies minor. Certain College of Agriculture study abroad programs offer special scholarships to cover some costs. For further information about College of Agriculture programs or to request application forms, contact Kara Hartman, International Programs in Agriculture, Room 104, Agricultural Administration Building.

Dean’s Scholars Program

The Dean's Scholars Program provides incoming undergraduate students or current undergraduate students who have achieved high academic status the honor of being designated a “Dean's Scholar”. Dean’s Scholars students are provided enriched, cross-disciplinary educational and extracurricular activities while studying and training in their respective disciplines. The program is designed to motivate students early in their academic programs to participate in rigorous and stimulating academic courses, research, and enrichment activities focusing on the breadth of agricultural, scientific, technological, environmental, and related disciplines housed in the College of Agriculture. The program will help build a sense of community among participants and engage them in the missions of the college and land-grant university (research, teaching, and extension) by exposing them to and involving them in work and activities focused on broad global challenges. Students will engage with stakeholders and distinguished alumni to gain a better understanding of career paths, opportunities, and success skills. Students can learn more about this program by contacting Elizabeth Byers-Doten (ebyers@purdue.edu).

Students admitted after Fall 2015 semester:
Course Requirements: The Dean’s Scholars curriculum is designed to complement and enhance a student’s major degree while encouraging students to participate in rigorous and stimulating academic courses and interdisciplinary activities. As such, 12 credits of selective coursework is required for successful program completion. Information on these 12 credits can be found at https://www.purdue.edu/learningcommunities/profiles/agriculture/aghonors.html.
### Faculty/Professional Staff in Animal Sciences

**Undergraduate advisors are in bold print.**

<table>
<thead>
<tr>
<th>Name &amp; Position</th>
<th>Office</th>
<th>Telephone (765)</th>
<th>E-mail</th>
<th>Specialty</th>
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<tr>
<td>Layi Adeola</td>
<td>CRTN 3056</td>
<td>494-4848</td>
<td><a href="mailto:laadeola@purdue.edu">laadeola@purdue.edu</a></td>
<td>Nutrition, Swine</td>
</tr>
<tr>
<td><strong>Kolapo Ajuwon</strong></td>
<td>CRTN 2010</td>
<td>494-4822</td>
<td><a href="mailto:kajuwon@purdue.edu">kajuwon@purdue.edu</a></td>
<td>Adipose &amp; Metabolic Biol.</td>
</tr>
<tr>
<td><strong>Rodney Allrich</strong></td>
<td>CRTN 3070</td>
<td>494-4844</td>
<td><a href="mailto:rallrich@purdue.edu">rallrich@purdue.edu</a></td>
<td>Reproductive Physiology, Dairy</td>
</tr>
<tr>
<td>John Blanton, Jr.</td>
<td>CRTN 1014</td>
<td>494-4806</td>
<td><a href="mailto:blantonj@purdue.edu">blantonj@purdue.edu</a></td>
<td></td>
</tr>
<tr>
<td>Jacquelyn Boerman</td>
<td>CRTN 3020</td>
<td>496-6290</td>
<td><a href="mailto:jboerma@purdue.edu">jboerma@purdue.edu</a></td>
<td>Dairy Extension</td>
</tr>
<tr>
<td><strong>Jackie Boudreaux</strong></td>
<td>CRTN 1058B</td>
<td>496-7769</td>
<td><a href="mailto:jboudreaux@purdue.edu">jboudreaux@purdue.edu</a></td>
<td>Senior Academic Advisor</td>
</tr>
<tr>
<td>Colleen Brady</td>
<td>Lilly 3-233</td>
<td>494-1152</td>
<td><a href="mailto:bradyc@purdue.edu">bradyc@purdue.edu</a></td>
<td>4-H Extension</td>
</tr>
<tr>
<td><strong>Luiz Brito</strong></td>
<td>CRTN 2016</td>
<td>494-9346</td>
<td><a href="mailto:britol@purdue.edu">britol@purdue.edu</a></td>
<td>Breeding and Genetics</td>
</tr>
<tr>
<td>Ryan Cabot</td>
<td>CRTN 2060</td>
<td>494-1746</td>
<td><a href="mailto:rcabot@purdue.edu">rcabot@purdue.edu</a></td>
<td>Molecular Genetics/Reprod. Biology</td>
</tr>
<tr>
<td>Heng-wei Cheng</td>
<td>CRTN 3012</td>
<td>494-48022</td>
<td><a href="mailto:hwcheng@purdue.edu">hwcheng@purdue.edu</a></td>
<td>USDA Livestock Behavioral Research</td>
</tr>
<tr>
<td>Candace Croney</td>
<td>VPTH 132A</td>
<td>496-6665</td>
<td><a href="mailto:ccroney@purdue.edu">ccroney@purdue.edu</a></td>
<td>Behavior/Well-Being</td>
</tr>
<tr>
<td>Barry Delks</td>
<td>CRTN 1058D</td>
<td>496-7234</td>
<td><a href="mailto:delks@purdue.edu">delks@purdue.edu</a></td>
<td>Career Services</td>
</tr>
<tr>
<td><strong>Paul Ebner</strong></td>
<td>CRTN 1070</td>
<td>494-4820</td>
<td><a href="mailto:pebner@purdue.edu">pebner@purdue.edu</a></td>
<td>Microbiology, Pre-harvest Food Safety</td>
</tr>
<tr>
<td>Marisa Erasmus</td>
<td>CRTN 3036</td>
<td>496-3886</td>
<td><a href="mailto:merasmus@purdue.edu">merasmus@purdue.edu</a></td>
<td>Animal Behavior and Well-Being</td>
</tr>
<tr>
<td>Marcos Fernandez</td>
<td>CRTN 2012</td>
<td>494-8016</td>
<td><a href="mailto:mfernandez@purdue.edu">mfernandez@purdue.edu</a></td>
<td>Student Outreach and Development</td>
</tr>
<tr>
<td>Greg Fraley</td>
<td>CRTN 2026</td>
<td>496-2725</td>
<td><a href="mailto:gfraley@purdue.edu">gfraley@purdue.edu</a></td>
<td>Poult Neuerendocrinology and Welfare</td>
</tr>
<tr>
<td><strong>Dale Forsyth</strong></td>
<td>CRTN 2028</td>
<td>494-4841</td>
<td><a href="mailto:dforsyth@purdue.edu">dforsyth@purdue.edu</a></td>
<td>Nonruminant Nutrition, Swine</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Office</td>
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<td>Email</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>Darrin Karcher</td>
<td>Associate Professor</td>
<td>CRTN 3042</td>
<td>494-4845</td>
<td><a href="mailto:dkarcher@purdue.edu">dkarcher@purdue.edu</a></td>
</tr>
<tr>
<td>Elizabeth Karcher</td>
<td>Associate Professor</td>
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<td><a href="mailto:ekarcher@purdue.edu">ekarcher@purdue.edu</a></td>
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<tr>
<td>Yuan (Brad) Kim</td>
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<td><a href="mailto:bradkim@purdue.edu">bradkim@purdue.edu</a></td>
</tr>
<tr>
<td>Shihuan Kuang</td>
<td>Professor</td>
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<td><a href="mailto:skuang@purdue.edu">skuang@purdue.edu</a></td>
</tr>
<tr>
<td>Jay Johnson</td>
<td>Asst. Adjunct Professor</td>
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<td><a href="mailto:jay.johnson@ars.usda.gov">jay.johnson@ars.usda.gov</a></td>
</tr>
<tr>
<td>Tim Johnson</td>
<td>Assistant Professor</td>
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<td><a href="mailto:john2185@purdue.edu">john2185@purdue.edu</a></td>
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<tr>
<td>James Krotz</td>
<td></td>
<td>CRTN 1058C</td>
<td>496-0320</td>
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<tr>
<td>Donald Lay, Jr.</td>
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</tr>
<tr>
<td>Ronald Lemenerager</td>
<td>Professor</td>
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<td>494-4817</td>
<td><a href="mailto:rpl@purdue.edu">rpl@purdue.edu</a></td>
</tr>
<tr>
<td>Donna Lofgren</td>
<td>Professional Associate</td>
<td>CRTN 3040</td>
<td>494-6439</td>
<td><a href="mailto:dlofgren@purdue.edu">dlofgren@purdue.edu</a></td>
</tr>
<tr>
<td>Zoltan Machaty</td>
<td>Professor</td>
<td>CRTN 2058</td>
<td>498-8008</td>
<td><a href="mailto:zmachaty@purdue.edu">zmachaty@purdue.edu</a></td>
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<tr>
<td>Jeremy Marchant-</td>
<td>Forde Asst. Adjunct Professor</td>
<td>CRTN 3014</td>
<td>494-6358</td>
<td><a href="mailto:merchant@purdue.edu">merchant@purdue.edu</a></td>
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<tr>
<td>James Markworth</td>
<td>Assistant Professor</td>
<td>CRTN 2054</td>
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<td><a href="mailto:jmarkwor@purdue.edu">jmarkwor@purdue.edu</a></td>
</tr>
<tr>
<td>Alan Mathew</td>
<td>Professor</td>
<td>CRTN 1014B</td>
<td>494-4806</td>
<td><a href="mailto:agmathew@purdue.edu">agmathew@purdue.edu</a></td>
</tr>
<tr>
<td>Michael Neary</td>
<td>Extension Specialist</td>
<td>CRTN 2018</td>
<td>494-4849</td>
<td><a href="mailto:mneary@purdue.edu">mneary@purdue.edu</a></td>
</tr>
<tr>
<td>Alex Pasternak</td>
<td>Assistant Professor</td>
<td>CRTN 2024</td>
<td>496-1997</td>
<td><a href="mailto:jpastern@purdue.edu">jpastern@purdue.edu</a></td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>Karen Plaut</td>
<td>AGAD 126</td>
<td>494-8362</td>
<td><a href="mailto:kplaut@purdue.edu">kplaut@purdue.edu</a></td>
<td>Mammary Gland Biology</td>
</tr>
<tr>
<td>J. Scott Radcliffe</td>
<td>CRTN 3054</td>
<td>496-7718</td>
<td><a href="mailto:jradclif@purdue.edu">jradclif@purdue.edu</a></td>
<td>Swine Nutrition</td>
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<tr>
<td>Brian Richert</td>
<td>CRTN 3044</td>
<td>494-4837</td>
<td><a href="mailto:brichert@purdue.edu">brichert@purdue.edu</a></td>
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<tr>
<td>Anna Ripke</td>
<td>CRTN 1058E</td>
<td>496-0964</td>
<td><a href="mailto:aripke@purdue.edu">aripke@purdue.edu</a></td>
<td>Academic Advisor</td>
</tr>
<tr>
<td>Allan Schinckel</td>
<td>CRTN 3038</td>
<td>494-4836</td>
<td><a href="mailto:aschinck@purdue.edu">aschinck@purdue.edu</a></td>
<td>Breeding and Genetics, Swine</td>
</tr>
<tr>
<td>Jon Schoonmaker</td>
<td>CRTN 3058</td>
<td>494-4860</td>
<td><a href="mailto:jschoonm@purdue.edu">jschoonm@purdue.edu</a></td>
<td>Ruminant Nutrition, Beef</td>
</tr>
<tr>
<td>Kara Stewart</td>
<td>CRTN 3046</td>
<td>496-6199</td>
<td><a href="mailto:krstewart@purdue.edu">krstewart@purdue.edu</a></td>
<td>Reproductive Physiology</td>
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<tr>
<td>Ashley York</td>
<td>CRTN 1058A</td>
<td>494-4843</td>
<td><a href="mailto:ashleyyork@purdue.edu">ashleyyork@purdue.edu</a></td>
<td>Coordinator of Academic Advising &amp; Student Services</td>
</tr>
<tr>
<td>Stacy Zuelly</td>
<td>CRTN 1072</td>
<td>494-3276</td>
<td><a href="mailto:szuelly@purdue.edu">szuelly@purdue.edu</a></td>
<td>Meat Science</td>
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</tbody>
</table>
Advising in Animal Sciences

Quality, personable academic advising is a top priority in the Department of Animal Sciences and the College of Agriculture. The faculty-student relationship often extends beyond course selection and scheduling and is enhanced by faculty familiarity with career opportunities. Some advisors maintain an open door policy allowing you to drop in anytime. Most, however, would prefer that you call ahead or e-mail them to schedule an appointment. This allows your advisor to arrange a time that is convenient for both of you and in addition, helps to ensure that you will not miss or have to wait for them.

Your advisor is one of the most important people in your academic program. They can help you with your progress and future after graduation. Get to know your advisor as well as other Animal Sciences faculty members during your academic career. This is important because your advisor and other faculty members are often requested to make recommendations for awards, scholarships and future employment as well as veterinary and graduate school admissions. Also, your advisor can keep you informed of various educational and work opportunities.

Incoming freshmen or transfer students are assigned an advisor in the Department of Animal Sciences. If you are uncertain who your advisor is, contact Ashley York, Coordinator of Advising and Student Services (765-494-4843, or email ashleyyork@purdue.edu). If you desire to change advisors within the Department, please contact Ashley York. If a student desires to change to another department in the College of Agriculture, complete the Changes of Primary Majors-Within Agriculture Form and have Ashley York or Elizabeth Karcher sign it as an exit signature. If a student desires to process a Change of Degree Objective (CODO) to transfer into or out of the College of Agriculture, the following procedures need to be followed:

CODO out of the Department of Animal Sciences

1. To exit the College of Agriculture, you need to first meet with/alert your primary advisor indicating you want to make this change.

2. Meet with an advisor in the new major you would like to pursue, to ensure you want to make this move.

3. As a final step you must notify, Ashley York, Coordinator of Academic Advising and Student Services for the Department of Animal Sciences that you would like to CODO. If you would like to meet with her prior to the CODO process, please schedule an appointment on BoilerConnect.

4. To enter your new College, you must meet the new College’s CODO requirements. These CODO requirements can be found online. A new academic advisor will be assigned to you within your new major.
Curricula in Animal Sciences

A student in Animal Sciences at Purdue University can earn a Bachelor of Science degree (B.S.) by completing a minimum of 120 credit hours. To earn a baccalaureate degree, a student shall enroll at Purdue for at least two semesters and complete at least 32 credit hours of upper level courses. In the College of Agriculture, upper level is defined as 30000 level or higher courses at Purdue or one of its regional campuses. Even though courses designated as 30000+ at other universities will satisfy curricula requirements, the course would not apply towards the minimum of 32 hours needed at Purdue. In addition, the graduation candidate must achieve a minimum average of 2.00 in graded ANSC courses and a cumulative GPA of ≥ 2.00 in all courses.

College of Agriculture Core (51 hours)
(As applicable to the Department of Animal Sciences)

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<td>Calculus</td>
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</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>120**</td>
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</table>

*Additional mathematics and/or science required credits will vary depending on the credits devoted to Science, Technology, and Society. Credits of Mathematics and Science and Science, Technology, and Society need to total 26 credits.
**As part of the 120 minimum hours required for graduation, the student must complete a minimum of 9 hours of international understanding credits, a minimum of 3 hours of a multicultural awareness experience and a capstone experience [ANSC 48100 plus one production/management course (ANSC 44000-44600)].

### College of Agriculture Core Requirements

<table>
<thead>
<tr>
<th>College of Agriculture (CoA) Core Requirements</th>
<th>Credits</th>
<th>UCC Outcome</th>
<th>Course Acronym and Number or Selective</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Agriculture Orientation</td>
<td>1</td>
<td>AGR Outcome</td>
<td>AGR 10100 and AGR 11400</td>
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<tr>
<td>Biological Sciences</td>
<td>8</td>
<td>Science</td>
<td>BIOL 11000 and BIOL 11100</td>
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<td>Calculus</td>
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<td>General Chemistry</td>
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<td>Science</td>
<td>CHM 11100 and CHM 11200 or CHM 11500 and CHM 11600</td>
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<td>Information Literacy</td>
<td>STAT 30100</td>
</tr>
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<td>Science, Technology, and Society</td>
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<td>Science, Technology and Society</td>
<td>ANSC 10200 or UCC Selective</td>
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<tr>
<td>Additional Mathematics and/or Sciences</td>
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<td>ANSC 22100</td>
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<td>First-Year Composition</td>
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<td>Written Communication</td>
<td>ENGL 10600, ENGL 10800, HONR 19903, or SCLA 10100</td>
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<td>Fundamentals of Speech Communication</td>
<td>3</td>
<td>Oral Communication</td>
<td>COM 11400, COM 21700, EDPS 31500, or SCLA 10200</td>
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<td>Additional Written or Oral Communication</td>
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<td>CoA Selective</td>
</tr>
<tr>
<td>Economics</td>
<td>3</td>
<td>Human Cultures: Behavioral/Social Sciences</td>
<td>CoA Selective</td>
</tr>
<tr>
<td>University Core Humanities</td>
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<td>Human Cultures: Humanities</td>
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<td>Other Social Sciences or Humanities</td>
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<tr>
<td>Humanities or Social Sciences 30000+Level</td>
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* These two categories must total (6) credits.

### Embedded Outcomes

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<tr>
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<th>Course(s) Acronym and Number or Selective</th>
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<tbody>
<tr>
<td>Creative Thinking</td>
<td>ANSC Nutrition Selective</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>ANSC Physiology Selective</td>
</tr>
<tr>
<td>Ethical Reasoning</td>
<td>ANSC Products Selective</td>
</tr>
<tr>
<td>Global Citizenship and Awareness</td>
<td>CoA Multicultural Awareness and International Understanding</td>
</tr>
<tr>
<td>Intercultural Knowledge</td>
<td>CoA Multicultural Awareness and International Understanding</td>
</tr>
<tr>
<td>Leadership and Teamwork</td>
<td>ANSC Production/Management Selective</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>ANSC 22100 Principles of Animal Nutrition</td>
</tr>
<tr>
<td>Integrative Knowledge</td>
<td>ANSC Production/Management Selective</td>
</tr>
<tr>
<td>Written Communication (Levels 2)</td>
<td>ANSC Genetics Selective</td>
</tr>
<tr>
<td>Information Literacy (Levels 2)</td>
<td>ANSC 23000 (Domestic Animal Physiology)</td>
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<tr>
<td>Oral Communication (Level 2)</td>
<td>ANSC 48100 (Contemporary Issues in Animal Science)</td>
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</table>
Indiana Statewide Transfer General Education Core

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<th>Course</th>
<th>Credit hours</th>
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<tr>
<td>Human Cultures-Humanities</td>
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<tr>
<td>Human Cultures-Social Sciences</td>
<td>CoA Economics selective</td>
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<tr>
<td>Information Literacy</td>
<td>STAT 30100</td>
<td>6</td>
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<tr>
<td>Science Selective</td>
<td>CHM 11100 and CHM 11200</td>
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</tr>
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<td>Science Selective</td>
<td>BIOL 11000</td>
<td>4</td>
</tr>
<tr>
<td>Science, Technology and Society</td>
<td>ANSC 10200 or UCC selective</td>
<td>3</td>
</tr>
<tr>
<td>Written Communication</td>
<td>ENGL 10600</td>
<td>4</td>
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<tr>
<td>Oral Communication</td>
<td>COM 11400</td>
<td>3</td>
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<tr>
<td>Quantitative Reasoning</td>
<td>MATH 16010</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
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</table>

International Understanding Requirement – 9 credits

All undergraduate plans of study leading to the degree of Bachelor of Science in Animal Sciences must include a minimum of nine credits from the international understanding selectives list found on the College of Agriculture website (link below), or equivalent study abroad programs, international travel courses, or international work experiences.  

International understanding selective credits may be used to fulfill written and oral communication, social sciences and humanities, or departmental requirements. In today's rapidly changing international environment, students must broaden their understanding and appreciation of the historic, cultural, linguistic, and geographic diversity of the world's peoples, while enhancing their ability to interact effectively with people from other cultures. The objective of the international understanding component of the core curriculum is to stimulate students to explore the world and responsibly apply their learning and knowledge to global challenges.

Multicultural Awareness Requirement – 3 credits

All undergraduate plans of study leading to the degree of Bachelor of Science in Animal Sciences must include a minimum of three credits of multicultural awareness electives. Students must broaden their awareness of the United States’ domestic, multicultural environment. The objective of the multicultural awareness component of the core curriculum is to stimulate students to become aware of self as well as others to be better prepared for the workplace and participatory citizenship. Information on courses that will meet this requirement can be found at  
Animal Sciences Capstone Experience

ANSC 48100 and one of the species management classes (ANSC 44000-44600) are required for the Animal Sciences capstone experience.

Restrictions: Junior or senior classification.
Industry-led and student discussion and debate of current issues facing animal industries. Topics include environmental impact, animal care and well-being, ethics, use of biotechnology, world food supply, and international agricultural trade. Industry representatives will share their experiences of the importance of good communication skills as well as technical knowledge of issues that are of concern to animal industries. Dr. Mathew and Mr. Delks.

B) Species Management (ANSC 44000-44600) Sem. 1 or 2. Lec. 3, Cr. 3.
Restrictions: Junior or senior classification.
A species management course (horse, beef, sheep, swine, dairy, poultry, or companion animal) is required for an Animal Sciences major to graduate, regardless of their concentration. A major component of each of these courses (approximately 20-25% of grade) is to give the student practical experience in aspects of planning and operating an animal enterprise as a member of a team or consultant group. Economic evaluation of the enterprise is an integral part of the project. Written reports and/or verbal presentations of the enterprise will be evaluated.
Name: ________________________________
Date: ____________ Advisor: ____________

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
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<td>Ag Orientation</td>
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<tr>
<td>1</td>
<td>AGR 11400</td>
<td>ANSC Orientation</td>
<td>.5</td>
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**Written and Oral Communication**

ENGL 10800/10600 or SCLA 10100 (3-4) ______

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<th>or any UCC approved written communication course</th>
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COM 11400/21700, EDPS 31500, or SCLA 10200 (3) ______

<table>
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<tr>
<th>or any UCC approved oral communication course</th>
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</table>

Written or Oral Com Selective (ENGL/COM 20000+) (3) ______

**Social Sciences and Humanities**

Economics Selective

AGEC 21700 (3) ______

Humanities Selectives (UCC)

_________________________________________ (3) ______

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<thead>
<tr>
<th>Humanities or Social Sciences [9]</th>
</tr>
</thead>
</table>

| __________ | __________ |__________ |

*

**Math & Basic Sciences**

BIOL 11000 (4) ______

BIOL 11100 (4) ______

CHM 11100 (3) ______

CHM 11200 (3) ______

CHM 25700 (4) ______

MA 16010 (3) ______

ANSC 22100 (3) ______

STAT 30100 (3) ______

**Sci., Tech., Society Selective**

ANSC 10200 (3) ______

**Multicultural Awareness Requirement**

_________________________________________ (0) ______

**International Understanding Requirement**

_________________________________________ (0) ______

**Capstone Experience**

_________________________________________ (0) ______

1Thirty-two credits must be 30000+ level at Purdue or regional campuses. See reverse for additional details.
Opportunities: Sales and service of animal health products, feed, production and equipment firms, livestock representatives for banks and other lending organizations, insurance companies and public relations.

1. Minimum number of credits required for graduation is 120. For ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Cumulative GPA for ANSC courses must be ≥ 2.00 to graduate. All ANSC courses taken for a grade will be part of the ANSC index regardless of whether it can be used in the plan of study. A minimum of 32 credits must be 30000+ level taken at Purdue University or its regional campuses. If credit from another university is transferred to Purdue and posted as 30000+, it does not count toward the 30000 level requirement. The following are not applicable as credit towards graduation: CHM 10000; ENGL 10000, 10900; ENGR 19100, 19200, 19300; MA 11100, 12300, 13300, 13400, 15100; PHYS 14900; STAT 11300, 11400; and all General Studies courses except GS 10000 or 49000 (Discovery Park Undergraduate Research). Of MA 15200, 15300, 15400, and 15800, only one course can be used as an elective.

2. All ANSC students classified as 1 are required to take AGR 10100 and AGR 11400. ANSC majors classified as 1 or 2 are required to take ANSC 18100. Transfer students are not required to take AGR 10100, AGR 11400 or ANSC 18100. ANSC majors classified as 1-4 are required to establish credit in ANSC 10200.

3. A minimum of 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside College of Ag.

**Economics - 3 Credits**
(3) AGEC 20300 (Introductory Microeconomics for Food and Agribusiness)
(3) AGEC 20400 (Introduction to Resource Economics and Environmental Policy)
(3) AGEC 21700 (Economics)
(3) ECON 21000 (Principles of Economics)

*AGEC 21700 is preferred; plan of study may include either AGEC 21700 or ECON 21000, but not both.

**Humanities**
Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100) Honors 19900 (Science and Pseudoscience)
Classics Honors 29900 (Insects in Literature and Art)
Educational Leadership and Cultural Foundations (Limited to EDST 20000) Interdisciplinary Studies
English Literature** Philosophy
Foreign Languages and Literature*** Visual and Performing Arts

**See approved list of literature courses.

***Foreign language (language or culture and literature) may be a humanities selective. Any foreign language course may be an international understanding selective. A minimum of three credits of a foreign language must be earned to be included in a plan of study. (Arabic, Chinese, Classics, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish)

**Social Sciences**
Agricultural Economics**** Economics
Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100) Political Science
Agronomy (Limited to AGRY 39900 – Afghanistan) Psychological Sciences
Anthropology Psyc-educational Studies (Limited to EDPS 23500 and 26500)

****Limited to six credits of AGEC 25000, 30500, 33300, 34000, 40600, 41000, 41500, 45000 or 49800.

4. Both CHM 11200 and 11600 cannot be used for credit. When CHM 11100, 11200 and 11600 are taken, only seven credits count towards graduation. If CHM 11100, 11500 and 11600 are taken, CHM 11100 cannot be used for credit.

5. Maximum of 1 class in STAT 30100, 35000, 50100 and a maximum of 1 class in 50300 and 51100.

6. ECON/MGMT Requirements: AGEC 20200, 20300 and 33000 and MGMT 20000 or 20120 (but not both). Twelve (12) additional credits must be completed from the following courses: ≥ MGMT 20100 (excluding MGMT 21200); ≥ ECON 21900; AECG 22000 or AGEC ≥ 30500. Highly Recommended: AECG 33100.

7. Animal Science Restricted Selectives. Majors are required to complete 10 credits from a minimum of three of the following disciplines.

   **Nutrition**
   ANSC 32500 (2)
   ANSC 32600 (2)
   ANSC 32800 (2)
   ANSC 32900 (2)
   ANSC 33200 (2)
   ANSC 34100 (3)
   ANSC 34500 (3)

   **Physiology**
   ANSC 31500 (3)
   ANSC 35100 (3)
   ANSC 35500 (3)
   ANSC 35800 (3)
   ANSC 38100 (3)
   BIOL 14500 (3)

   **Genetics**
   AGRY 32000 (3)
   AGRY 32100 (1)
   AGRY 32300 (3)
   AGRY 35100 (3)
   AGRY 35300 (3)
   AGRY 38400 (3)

   **Reproduction**
   ANSC 42500 (2)
   ANSC 42600 (2)
   ANSC 43500 (3)
   ANSC 45100 (3)
   ANSC 45200 (3)
   ANSC 47000 (3)

   **Products**
   ANSC 30100 (4)
   ANSC 31500 (3)
   ANSC 35101 (1)
   ANSC 36000 (3)
   ANSC 56200 (3)

   **Behavior/Wellbeing**
   ANSC 49100 / ANSC 49300. Both ANSC 10200 and 10600 can be taken. Combination of ANSC 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC selectives.

8. Recommended: ANSC 49100/ANSC 49300. Both ANSC 10200 and 10600 can be taken. Combination of ANSC 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC selectives.

9. Multicultural Awareness Requirement: This 3 credit requirement may be met by taking an appropriate course from the multicultural awareness selective list.

10. International Understanding: A minimum of 9 credits may be taken from the International Understanding list, equivalent study abroad programs, international work experiences or international travel course. Courses that satisfy international understanding criteria can be used at appropriate places for credit in the plan of study.

11. Capstone experience: ANSC 48100 plus one course from management block (ANSC 44000-44600).
### Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>0.5</td>
<td>AGR 10100 Introduction to the College of Agriculture and Purdue University</td>
<td></td>
<td>2</td>
<td>ANSC 12100 Ethics of Animal Use</td>
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<tr>
<td>0.5</td>
<td>AGR 11400 Introduction to Animal Sciences Academic Programs</td>
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<td>1</td>
<td>ANSC 18100 Orientation to Animal Sciences</td>
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<tr>
<td>3</td>
<td>ANSC 10200 Introduction to Animal Agriculture</td>
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<td>4</td>
<td>BIOL 11100 Fundamentals of Biology I&lt;sup&gt;iv&lt;/sup&gt;</td>
<td>BIOL 11000</td>
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<td>4</td>
<td>BIOL 11000 Fundamentals of Biology I&lt;sup&gt;iv&lt;/sup&gt;</td>
<td></td>
<td>3</td>
<td>CHM 11200 General Chemistry&lt;sup&gt;iv&lt;/sup&gt;</td>
<td>CHM 11100</td>
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<tr>
<td>3</td>
<td>CHM 11100 General Chemistry&lt;sup&gt;iv&lt;/sup&gt;</td>
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<td>3</td>
<td>COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills</td>
<td></td>
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<tr>
<td>3-4</td>
<td>ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing</td>
<td></td>
<td>3</td>
<td>MA 16010 Applied Calculus I</td>
<td>ALEKS 75+</td>
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<td><strong>14-15</strong></td>
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<tr>
<td>1</td>
<td>AGEC 20200 Spreadsheet use in Ag Business</td>
<td></td>
<td>3</td>
<td>ANSC 24000 Principles of Animal Production</td>
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<td>3</td>
<td>Economics Selective</td>
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<td>STAT 301000</td>
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<td>3</td>
<td>ANSC 25500 Principles of Animal Products</td>
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<td>4</td>
<td>ANSC 23000 Principles of Animal Anatomy/ Physiology</td>
<td>BIOL 11100</td>
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<tr>
<td>3</td>
<td>ANSC 22100&lt;sup&gt;iv&lt;/sup&gt; Principles of Animal Nutrition</td>
<td>CHM 11100</td>
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<td>CHM 25700 Organic Chemistry</td>
<td>CHM 11200</td>
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<td>3</td>
<td>AGEC 20300 Introductory Microeconomics for Food</td>
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<tbody>
<tr>
<td>3</td>
<td>MGMT 20000 Introductory Accounting or MGMT 201200 Business Accounting</td>
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<td>Agricultural Economics, Economics, or Management Selective</td>
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<td>ANSC 31100 Animal Breeding and Genetics</td>
<td>Biol 11100 STAT 30100</td>
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<td>3</td>
<td>AGEC 33000 Management Methods For Ag. Business</td>
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<td>2-3</td>
<td>ANSC Restricted Selectives</td>
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<tr>
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<td>ANSC 333 Reproductive Physiology</td>
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<td>Humanities or Social Science Selective</td>
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<th>Spring 4th Year</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>1</td>
<td>ANSC 48100 Contemporary Issues in Animal Sciences</td>
<td></td>
<td>4-6</td>
<td>ANSC Restricted Selective</td>
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<td>3</td>
<td>Agricultural Economics, Economics, or Management Selective</td>
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<tr>
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<td>5-6</td>
<td>Electives</td>
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<td><strong>15-17</strong></td>
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The student is ultimately responsible for knowing and completing all degree requirements.
myPurdue Plan is knowledge source for specific requirements and completion
### Major: Animal Sciences (ASCI)
#### Concentration: Animal Production & Industry

**Name:** ______________________________________________

**Date:** ____________ **Advisor:** ____________________________

<table>
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<th>(56) Departmental Requirements</th>
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<tbody>
<tr>
<td>Animal Products Elective*^6</td>
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<tr>
<td>Financial Mgmt Elective*^7</td>
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<tr>
<td>Enterprise Mgmt Electives*^8</td>
</tr>
<tr>
<td>Production/Mgmt Electives*^9</td>
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<tr>
<td>BCHM 30700</td>
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<tr>
<td>BIOL 22100</td>
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#### ANSC Courses Required [24]

- ANSC 18100^2  (1)
- ANSC 23000  (4)
- ANSC 25500  (3)
- Principles of Animal Production  (3)
- ANSC 12100  (2)
- ANSC 33300  (3)
- ANSC 44000-44600  (3)
- ANSC 48100  (1)

#### ANSC Restricted Selectives [10]
Select 10 credits from a minimum of 3 of the following course groupings:

- Nutrition  ( )
- Reproduction  ( )
- Physiology  ( )
- Genetics  ( )
- Products  ( )
- Behavior/Welfare  ( )

#### (9) Electives*^11,^12

| ( ) |
| ( ) |
| ( ) |
| ( ) |
| ( ) |
| ( ) |

#### International Understanding Requirement [14]

| (0) |
| (0) |
| (0) |

#### Capstone Experience [15]

| (0) |

---

1. Thirty-two credits must be 30000+ level at Purdue or regional campuses. See reverse for additional details.
Opportunities: Product development managers, quality control technicians, process supervisors and sales in milk, egg and meat processing plants; graders and inspectors at the farm or manufacturing level for milk, meat and eggs; animal production evaluation, improvement, and sales; livestock buyers for meat-packing companies. Other opportunities include research and development of animal food products.

1. Minimum number of credits required for graduation is 120. For ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Cumulative GPA for ANSC courses must be ≥2.00 to graduate. All ANSC courses taken for a grade will be part of the ANSC index regardless of whether it can be used in the plan of study. A minimum of 32 credits must be 30000+ level taken at Purdue University or its regional campuses. If credit from another university is transferred to Purdue and posted as 30000+, it does not count toward the 30000 level requirement. The following are not applicable as credit toward graduation: CHM 10000; ENGL 10000, 10900; ENGR 19100, 19200, 19300; MA 11100, 12300, 13300, 13400, 15100; PHYS 14900; STAT 11300, 11400; and all General Studies courses except GS 1000 or 49000 (Discovery Park Undergraduate Research). Of MA 15200, 15300, 15400, and 15800, only one course can be used as an elective.

2. All ANSC students classified as 1 are required to take AGR 10100 and AGR 11400. ANSC students classified as 1 or 2 are required to take ANSC 18100. Transfer students are not required to take AGR 10100/AGR 11400 or ANSC 18100. ANSC majors classified as 1-4 are required to establish credit in ANSC 10200.

3. At least 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

4. ANSC 32400 (3)
   ANSC 32600 (3)
   ANSC 35100 (3)
   ANSC 42500 (3)
   ANSC 42600 (3)
   ANSC 45100 (3)
   ANSC 45200 (3)

5. Production/Management Selectives (Non-ANSC). A minimum of 3 credits from the following courses must be completed:

   - AGEC 20300 (3)
   - AGEC 20400 (3)
   - AGEC 21700 (3)

   *Plan of study may include either AGEC 21700 or ECON 21000, but not both.

6. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 20300 (3)
   - AGEC 20400 (3)
   - AGEC 21700 (3)

7. Interdisciplinary Studies. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 32700 (3)
   - AGEC 33000 (3)
   - AGEC 33100 (3)

8. At least 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

9. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 32700 (3)
   - AGEC 33000 (3)
   - AGEC 33100 (3)

10. Agronomy (Limited to AGRY 39900 – Afghanistan) Anthropology

   - AGEC 33300 (3)
   - AGEC 42000 (3)
   - AGEC 45000 (3)

11. Agronomy (Limited to AGRY 39900 – Afghanistan) Anthropology

   - AGEC 42000 (3)
   - AGEC 45000 (3)

12. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

13. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

14. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

15. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

16. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

17. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

18. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

19. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

20. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

21. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

22. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

23. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

24. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

25. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

26. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

27. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

28. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

29. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)

30. Honors. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Agriculture.

   - AGEC 42000 (3)
   - AGEC 45000 (3)
### Suggested Arrangement of Courses:

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<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
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<td>AGR 10100 Introduction to the College of Agriculture and Purdue University</td>
<td>0.5 AGR 11400 Introduction to Animal Sciences Academic Programs</td>
<td>2</td>
<td>ANSC 12100 Ethics of Animal Use</td>
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<td>0.5</td>
<td>ANSC 10200 Introduction to Animal Agriculture</td>
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<td>CHM 11100: General Chemistry</td>
<td>3</td>
<td>COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills</td>
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<td>3 ANSC 12100 Introduction to Animal Agriculture</td>
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<td>ANSC 25500 Principles of Animal Products</td>
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<td>MA 15800 or MA 16010 Applied Calculus I ALEKS 75+</td>
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<td>Economics Selective</td>
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<td>ANSC 23000 Principles of Anatomy and Physiology</td>
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<td>BIOL 11100 and STAT 30100</td>
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******************************************************************************

The student is ultimately responsible for knowing and completing all degree requirements. myPurdue Plan is knowledge source for specific requirements and completion.
Major: Animal Sciences (ASCI)  
Concentration: Behavior/Well-being (BEHV)  

Name: ____________________________  Date: ____________  Advisor: ____________________________

(5) AGR 10100 – Ag Orientation  
(5) AGR 11400 – ANSC Orientation 

(9) Written and Oral Communication 
ENGL 10800/10600 or SCLA 10100 (3-4) 
(or any UCC approved written communication course) 
COM 11400/21700, EDPS 31500, or SCLA 10200 (3)  
(or any UCC approved oral communication course) 
Written or Oral Com Selective (3) 
(ENGL/COM 20000+) 

(15) Social Sciences and Humanities* 
Economics Selective (3)  
Humanities Selectives (UCC) (3)  
Humanities or Social Sciences [9]  
________________________ ( ) ( )  
________________________ ( ) ( )  
________________________ ( ) ( )  

* A minimum of three credits must be 30000+ level and a minimum of 9 credits must be outside College of Ag.

(28-29) Mathematics & Sciences 
BIOL 11000 (4)  
BIOL 11100 (4)  
CHM 11500 (4)  
CHM 11600 (4) or CHM 11200 (3)  
CHM 11600 (4)  
MA 16010 (3)  
ANSC 22100 (3)  
CHM 25700 (4)  
STAT 30100 (3)  

(3) Sci., Tech., Society Selective  
ANSC 10200 (3)  

Multicultural Awareness Requirement 
________________________ (0) ( )

(52) Departmental Requirements 
BCHM 30700 (3)  
Behavior/Well-being Selectives [15]  
PY 12000 (3)  
________________________ ( ) ( )  
________________________ ( ) ( )  
________________________ ( ) ( )  
________________________ ( ) ( )  

ANSC Courses Required [24]  
ANSC 18100 (1)  
ANSC 23000 (4)  
(Principles of Anatomy/Physiology)  
ANSC 25500 (3)  
(Principles of Animal Products)  
Principles of Animal Production (3)  
Animal Breeding and Genetics (4)  
ANSC 12100 (2)  
(Ethics of Animal Use)  
ANSC 33300 (3)  
(Reproductive Physiology)  
ANSC 44000-44600 (3)  
(Management course)  
ANSC 48100 (1)  

ANSC Restricted Selectives [10]  
Select 10 credits from a minimum of 3 of the following course groupings: 
Behavior/Well-being (required)  
ANSC 30300 (3)  
ANSC 40400 (3)  
Nutrition  
Reproduction  
Physiology  
Genetics  
Products  

(12-13) Free Electives [8]  
________________________ ( ) ( )  
________________________ ( ) ( )  
________________________ ( ) ( )  
________________________ ( ) ( )  

International Understanding Requirement [10]  
________________________ (0) ( )  
________________________ (0) ( )  
________________________ (0) ( )  

Capstone Experience [11]  
________________________ (0) ( )  

1Thirty-two credits must be 30000+ level at Purdue or regional campuses. See reverse for additional details.
Opportunities: Students desiring a balance of animal production, behavioral sciences, and well-being are best served by this option. Careers are available as managers of animal production units (e.g., beef cow-calf or feedlot manager, flock supervisor, or swine manager). Limited career opportunities may be available as an animal trainer, zoo environment enhancement specialist, companion animal consultant, breed association animal well-being specialist, and pet safety education specialist for a humane society. Those interested in advanced studies could become animal behavior consultants or scientists at universities.

1. Minimum number of credits required for graduation is 120. For all ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Cumulative GPA for ANSC courses must be \( \geq 2.00 \) to graduate. All ANSC courses taken for a grade will be part of the ANSC index regardless of whether it can be used in the plan of study. A minimum of 32 credits must be 30000+ level taken at Purdue University or its regional campuses. If credit from another university is transferred to Purdue and posted as 30000+, it does not count toward the 30000 level requirement. The following are not applicable as credit toward graduation: CHM 10000; ENGL 10000, 10900; ENGR 19100, 19200, 19300; MA 11100, 12300, 13200, 13300, 13400, 15100; PHYS 14900; STAT 11300, 11400; and all General Studies courses except GS 10000 or 49000 (Discovery Park Undergraduate Research). Of MA 15200, 15300, 15400, and 15800, only one course can be used as an elective.

2. All ANSC students classified as 1 or 2 are required to take ANSC 36000 or ANSC 18100. ANSC majors classified as 1-4 are required to establish credit in ANSC 10200.

3. At least 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside the College of Ag.

4. Both CHM 11200 and 11600 cannot be used for credit. When CHM 11100, 11200, and 11600 are taken, only seven credits count toward graduation. If CHM 11100, 11500 and 11600 are taken, CHM 11100 cannot be used for credit.

5. Maximum of 1 class in STAT 30100, 35000, 50100 and a maximum of 1 class in 51400, 51500, 49800.

6. Behavior/Well-being Selectives- PSY 12000 (3) and 12 credits from list below required:

7. Animal Science Restricted Selectives. A minimum of 10 credits from a minimum of three of the following disciplines.

8. Recommended: ANSC 49100/49300. Both ANSC 10200 and 10600 can be used in a plan of study. Combination of ANSC 37000, 37100, 37200, 47000, 47100, and 47200 cannot exceed 3 credits toward ANSC selectives.

9. Multicultural Awareness Requirement: This requirement may be met by taking an appropriate course from the multicultural awareness selective list.

10. International Understanding Requirement: A minimum of 9 credits may be taken from the International Understanding list, equivalent study abroad programs, international work experiences or international travel course. Courses that satisfy international understanding criteria can be used anywhere in the plan of study.

### Suggested Arrangement of Courses:

#### Fall 1st Year
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<tr>
<th>Credits</th>
<th>Course</th>
<th>Prerequisite</th>
<th>Credits</th>
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<td>ANSC 18100 Orientation to Animal Sciences</td>
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<td>AGR 11400 Introduction to Animal Sciences Academic Programs</td>
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<td>BIOL 11100 Fundamentals of Biology II (cc)</td>
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<td>ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing</td>
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<td>4</td>
<td>CHM 11500 General Chemistry (cc)</td>
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<td>ANSC 12100 Ethics of Animal Use</td>
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<td>MA 16010 Applied Calculus I</td>
<td>ALEKS 75+</td>
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<td>ANSC 23000 Principles of Anatomy/ Physiology</td>
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<td>COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills</td>
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#### Fall 2nd Year
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#### Fall 3rd Year
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The student is ultimately responsible for knowing and completing all degree requirements. myPurdue Plan is knowledge source for specific requirements and completion.
### Major: Animal Sciences (ASCI)  
Concentration: Biosciences (BISC)  

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<th>(50) Departmental Requirements</th>
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<tr>
<th>Science Selectives&lt;sup&gt;6&lt;/sup&gt;</th>
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<td>(or any UCC approved science course)</td>
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<td>(ENGLISH/COM 20000+)</td>
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<th>ANSC Courses Required</th>
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<td>ANSC 18100&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>ANSC 23000</td>
<td>(4)</td>
</tr>
<tr>
<td>(Principles of Anatomy/Physiology)</td>
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<td>ANSC 25500</td>
<td>(3)</td>
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<td>(Principles of Products)</td>
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<tr>
<td>Principles of Animal Production</td>
<td>(3)</td>
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<tr>
<td>Animal Breeding and Genetics</td>
<td>(4)</td>
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<td>ANSC 12100</td>
<td>(2)</td>
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<tr>
<td>(Ethics of Animal Use)</td>
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<td>ANSC 33300</td>
<td>(3)</td>
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<tr>
<td>(Reproductive Physiology)</td>
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<td>ANSC 44000-44600</td>
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<td>Management course</td>
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<th>ANSC Restricted Selectives&lt;sup&gt;7&lt;/sup&gt;</th>
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<td>Select 10 credits from a minimum of 3 of the following course groupings:</td>
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<tr>
<td>Nutrition</td>
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<td>Reproduction</td>
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<tr>
<td>Physiology</td>
<td>( )</td>
</tr>
<tr>
<td>Genetics</td>
<td>( )</td>
</tr>
<tr>
<td>Products</td>
<td>( )</td>
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<tr>
<td>Behavior/Well-being</td>
<td>( )</td>
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<th>(15) Social Sciences and Humanities*&lt;sup&gt;3&lt;/sup&gt;</th>
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<td>Economics Selective</td>
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<td>Humanities Selective (UCC)</td>
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<td>Humanities or Social Sciences</td>
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* A minimum of three credits must be 30000+ level and a minimum of 9 credits must be outside College of Ag.

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<tr>
<th>(28-29) Mathematics &amp; Sciences</th>
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<tr>
<td>BIOL 11000</td>
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<tr>
<td>BIOL 11100</td>
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<td>CHM 11500</td>
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<td>CHM 11100</td>
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<tr>
<td>CHM 11200</td>
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<tr>
<td>CHM 11604&lt;sup&gt;4&lt;/sup&gt;</td>
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<tr>
<td>MA 16010</td>
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<td>ANSC 22100</td>
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<td>CHM 25700</td>
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<td>STAT 30100&lt;sup&gt;5&lt;/sup&gt;</td>
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<table>
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<tr>
<th>(3) Sci., Tech., Society Selective&lt;sup&gt;2&lt;/sup&gt;</th>
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<tr>
<th>Multicultural Awareness Requirement&lt;sup&gt;9&lt;/sup&gt;</th>
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<sup>1</sup>Thirty-two credits must be 30000+ level at Purdue or regional campuses. See reverse for additional details.
Opportunities: Research careers in nutrition, growth and development, animal genetics, reproduction, and management. Students who aspire to have/aspire/achieve careers in research and teaching in colleges and universities should enroll in this option. It can also be used in preparation for professional professional schools such as medical doctors, dentists, and employment with pharmaceutical industries.

1. Minimum number of credits required for graduation is 120. For ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Cumulative GPA for ANSC courses must be \( \geq 2.00 \) to graduate. All ANSC courses taken for a grade will be part of the ANSC index regardless of whether it can be used in the plan of study. A minimum of 32 credits must be 3000+ level taken at Purdue University or its regional campuses. If credit from another university is transferred to Purdue and posted as 3000+, it does not count toward the 30000 level requirement. The following are not applicable as credit toward graduation: CHM 10000; ENGL 10000, 10900; ENGR 19100, 19200, 19300; MA 11100, 12300, 13300, 13400, 15100; PHYS 14900; STAT 11300, 11400; and all General Studies courses except GS 10000 or 49000 (Discovery Park Undergraduate Research). Of MA 15200, 15300, 15400, and 15800, only one course can be used as an elective.

2. All ANSC students classified as 1 are required to take AGR 10100 and AGR 11400. ANSC students classified as 1 or 2 are required to take ANSC 18100. Transfer students are not required to take AGR 10100/AGR 11400 or ANSC 18100. ANSC majors classified as 1-4 are required to establish credit in ANSC 10200.

3. At least 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 3000+ level and a minimum of 9 credits must be outside College of Ag.

**Economics - 3 Credits**

- (3) AGEC 20300 (Intro Microeconomics for Food and Agribusiness)
- (3) AGEC 20400 (Intro to Resource Economics and Environ Policy)
- (3) AGEC 21700 (Economics)

**Humanities**

- Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100) History
- Band (Limited to 3 credits) Honors 19900(Science and Pseudoscience)
- Classics Honors 29900 (Insects in Literature and Art)
- Educational Leadership and Cultural Foundations (Limited to EDST 20000) Interdisciplinary Studies
- English Literature Philosophy
- Foreign Languages and Literature Visual and Performing Arts

**See approved list of literature courses.

4. Both CHM 11200 and 11600 cannot be used for credit. When CHM 11100, 11200 and 11600 are taken, only seven credits count towards graduation. If CHM 11100, 11500 and 11600 are taken, CHM 11100 cannot be used for credit.

5. Maximum of 1 class in STAT 30100, 35000, 50100 and a maximum of 1 class in 50300 and 51100.


   - **ANSC 49100**
     - CS \( \geq 14500 \)
     - IT 22600, 22700
     - STAT \( \geq 50000 \)
   - **ANSC 50000+**
     - ENTM 52500
     - IT 34200
     - CHM 22400 or CHM 29000, CHM \( \geq 32100 \), but not CHM 50000, 50200 or CHM 53500
   - **BCHM 22100**
     - FS 34100
     - MA \( \geq 26100 \)
     - 51300. Credit for both BCHM 33300 and BCHM 30700 cannot be granted.
   - **BCHM \( > 32200 \)**
     - FS 36200
     - PHIL 42100
     - Physics other than PHYS 14900, 16000, 21400, 21800 or 27000
   - **BIOL \( \geq 21200 \)**
     - FS 44200
     - Maximum of 6 credits among ANSC 49100 and 50000+.
   - **CNIT 22700**
     - HSCI 56000
     - (NOTE: If using STAT 50300 as your STAT selective, you may not use it as a science selective)

7. Animal Science Restricted Selectives. Majors are required to complete 10 credits from a minimum of three of the following disciplines.

   - **Nutrition**
     - **Physiology**
     - **Genetics**
     - **Reproduction**
     - **Products**
     - **Behavior/Well-being**

   - **ANSC 32500 (2)**
   - **ANSC 33200 (2)**
   - **AGRY 32000 (3)**
   - **ANSC 42500 (2)**
   - **ANSC 30100 (4)**
   - **ANSC 30300 (3)**

   - **ANSC 32600 (2)**
   - **ANSC 41500 (3)**
   - **AGRY 32100 (1)**
   - **ANSC 42600 (2)**
   - **ANSC 35100 (3)**
   - **ANSC 40400 (3)**

   - **ANSC 32400 (3)**
   - **ANSC 55100 (3)**
   - **ANSC 51300 (3)**
   - **ANSC 53500 (3)**
   - **ANSC 35101 (1)**
   - **ANSC 36000 (3)**

   - **ANSC 52400 (3)**
   - **ANSC 55500 (3)**
   - **ANSC 51400 (3)**
   - **ANSC 53600 (3)**
   - **ANSC 55200 (3)**

8. Highly recommended: ANSC 49100/ANSC 49300. Both ANSC 10200 and 10600 can be used as an ANSC selective. Combination of ANSC 37000, 37100, 37200, 47000, 47100, and 47200 cannot exceed 3 credits towards ANSC selectives.

9. Multicultural Awareness Requirement: This requirement may be met by taking an appropriate course from the multicultural awareness selective list.

10. International Understanding Requirement: A minimum of 9 credits may be taken from the International Understanding list, equivalent study abroad programs, international work experiences or international travel course. Courses that satisfy international understanding criteria can be used anywhere in the plan of study.

# Suggested Arrangement of Courses:

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<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
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<td>AGR 10100 Introduction to the College of Agriculture and Purdue University</td>
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<td>ANSC 18100 Orientation to Animal Sciences</td>
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<td>0.5</td>
<td>AGR 11400 Introduction to Animal Sciences Academic Programs</td>
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<td>BIOL 11100cc Fundamentals of Biology II</td>
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<td>ANSC 10200 Introduction to Animal Agriculture</td>
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<td>CHM 11600cc General Chemistry</td>
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<td>4</td>
<td>BIOL 11000cc Fundamentals of Biology I</td>
<td>3-4</td>
<td>ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing</td>
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<td>CHM 11500cc General Chemistry</td>
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<td>ANSC 12100 Ethics of Animal Use</td>
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<td>MA 16010 Applied Calculus I ALEKS 75+</td>
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<td>CHM 25700 Survey of Organic Chemistry CHM 11600</td>
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<td>UCC Oral Communication Selective</td>
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<th>Spring 3rd Year</th>
<th>Prerequisite</th>
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**********************************************************************************************************************************************************************

The student is ultimately responsible for knowing and completing all degree requirements. myPurdue Plan is knowledge source for specific requirements and completion

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7/24/2021 (effective Fall 2021)
null
Opportunities: This option meets the requirements for application to the College of Veterinary Medicine at Purdue University. Courses in bold are required to apply for veterinary school. Additional courses needed to satisfy requirements for the 3+1 Program in ANSC are indicated by the symbol * with a minimum total of 100 credits.

1. Minimum number of credits required for graduation is 120. For ANSC majors, all ANSC courses must be taken for a grade except for ANSC 29300/49300. Cumulative GPA for ANSC courses must be ≥ 2.00 to graduate. All ANSC courses taken for a grade will be part of the ANSC index regardless of whether it can be used in the plan of study. A minimum of 32 credits must be 30000+ level taken at Purdue University or its regional campuses. If credit from another university is transferred to Purdue and posted as 30000+, it does not count toward the 30000 level requirement. The following are not applicable as credit toward graduation: CHM 10000; ENGL 10000, 10900; ENGR 19100, 19200, 19300; MA 11100, 12300, 13300, 13400, 15100, MA 15555; PHYS 14900; STAT 11300, 11400; and all General Studies courses except GS 10000 or 49000 (Discovery Park Undergraduate Research). Of MA 15200, 15300, 15400, and 15800, only one course can be used as an elective.

2. All ANSC students classified as 1 are required to take AGR 10100 and AGR 11400. ANSC students classified as 1 or 2 are required to take ANSC 18100. Transfer students are not required to take AGR 10100/11400 or ANSC 18100. ANSC majors classified as 1-4 are required to establish credit in ANSC 10200.

3. A minimum of 15 credit hours are needed to satisfy the Social Sciences and Humanities requirement. A minimum of 3 credits must be 30000+ level and a minimum of 9 credits must be outside College of Ag.

**Economics - 3 Credits***

(3) AGEC 20300 (Intro Microeconomics for Food and Agribusiness)
(3) AGEC 20400 (Intro to Resource Economics/Envirion Policy)
(3) AGEC 21700 (Economics)

*Plan of study may include either AGEC 21700 or ECON 21000, but not both.

**Humanities**

Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100) (2)
Band (Limited to 3 credits)
Classics
Educational Leadership and Cultural Foundations (Limited to EDST 20000)
English Literature**
Foreign Languages and Literature***

**See approved list of literature courses.

***Foreign language (language or culture and literature) may be a humanities selective. Any foreign language course may be an international understanding elective. A minimum of three credits of a foreign language must be earned to be included in a plan of study.

(Arabic, Chinese, Classics, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish)

**Social Sciences**

Agricultural Economics****
Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100)
Agronomy (Limited to AGRY 39900 – Afghanistan)
Anthropology
Economics

****Limited to six credits of AGEC 25000, 20500, 33300, 34000, 40600, 41000, 41500, 45000 or 49800.

4. Both CHM 11200 and 11600 cannot be used for credit. When CHM 11100, 11200 and 11600 are taken, only seven credits count towards graduation. If CHM 11100, 11500 and 11600 are taken, CHM 11100 cannot be used for credit.

5. Maximum of 1 class in STAT 30100, 35000, 50100 and a maximum of 1 class in 50300 and 51100.

6. Animal Science Restricted Selectives. Majors are required to complete 10 credits from a minimum of 3 of the following disciplines.

<table>
<thead>
<tr>
<th>Nutrition</th>
<th>Physiology</th>
<th>Genetics</th>
<th>Reproduction</th>
<th>Products</th>
<th>Behavior/Well-being</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 32500 (2)</td>
<td>ANSC 33200 (2)</td>
<td>AGRC 32000 (3)</td>
<td>ANSC 42500 (2)</td>
<td>ANSC 30100 (4)</td>
<td>ANSC 30300 (3)</td>
</tr>
<tr>
<td>ANSC 32600 (2)</td>
<td>ANSC 41500 (3)</td>
<td>AGRC 32100 (1)</td>
<td>ANSC 42600 (2)</td>
<td>ANSC 35100 (3)</td>
<td>ANSC 40400 (3)</td>
</tr>
<tr>
<td>ANSC 32400 (3)</td>
<td>ANSC 55100 (3)</td>
<td>ANSC 51300 (3)</td>
<td>ANSC 53500 (3)</td>
<td>ANSC 35101 (1)</td>
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</tr>
<tr>
<td>ANSC 52400 (3)</td>
<td>ANSC 55500 (3)</td>
<td>ANSC 51400 (3)</td>
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<td>ANSC 36000 (3)</td>
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</tr>
<tr>
<td>ANSC 52200 (3)</td>
<td>BIOL 41500 (3)</td>
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<td></td>
<td>ANSC 55200 (3)</td>
<td></td>
</tr>
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</table>

7. Recommended: ANSC 49100/ANSC 49300. Both ANSC 10200 and 10600 can be used as an ANSC selective. Combination of ANSC 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC selectives.

8. Recommended courses for applicants to veterinary school: Animal Sciences (including nutrition- ANSC 22100, 32400); AGEC 21700; CHM 22400; CSR 10500, 30900, 34200; ECON 25100, 25200; ENGL 42000, 42100; MGMT 20000 or MGMT 21200.

9. Multicultural Awareness Requirement: This requirement may be met by taking an appropriate course from the multicultural awareness selective list.

10. International Understanding Requirement: A minimum of 9 credits may be taken from the International Understanding list, equivalent study abroad programs, international work experiences or international travel course. Courses that satisfy international understanding criteria can be used anywhere in the plan of study.

## Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
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<tr>
<td>0.5</td>
<td>AGR 10100 Introduction to the College of Agriculture and Purdue University</td>
<td></td>
<td>1</td>
<td>ANSC 18100 Orientation to Animal Sciences</td>
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</tr>
<tr>
<td>0.5</td>
<td>AGR 11400 Introduction to Animal Sciences Academic Programs</td>
<td></td>
<td>4</td>
<td>BIOL 11100 cc Fundamentals of Biology I</td>
<td>BIOL 11000</td>
</tr>
<tr>
<td>3</td>
<td>ANSC 10200 Introduction to Animal Agriculture</td>
<td></td>
<td>4</td>
<td>CHM 11600 cc General Chemistry</td>
<td>CHM 115000</td>
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<tr>
<td>4</td>
<td>BIOL 11000 cc Fundamentals of Biology I</td>
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<td>3-4</td>
<td>ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing</td>
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<tr>
<td></td>
<td>CHM 11500 cc General Chemistry</td>
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<td>2</td>
<td>ANSC 12100 Animal Ethics</td>
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<tr>
<td></td>
<td>MA 16010 Applied Calculus I</td>
<td>ALEKS 75+</td>
<td>1</td>
<td>VM 10200 Careers in Veterinary Medicine</td>
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<td>15</td>
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<td>15-16</td>
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<th>Credits</th>
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<th>Spring 2nd Year</th>
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<tbody>
<tr>
<td>3</td>
<td>ANSC 22100 Principles of Animal Nutrition</td>
<td>CHM 1100</td>
<td>3</td>
<td>STAT 30100 Elementary Statistical Methods</td>
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<tr>
<td>3</td>
<td>BIOL 23100 Biology III: Cell structure and function</td>
<td>BIOL 11000 &amp; CHM 11600</td>
<td>3</td>
<td>ANSC 25500 Principles of Animal Products</td>
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<tr>
<td>3</td>
<td>ANSC 24000 Principles of Animal Production</td>
<td></td>
<td>4</td>
<td>ANSC 23000 Principles of Anatomy/ Physiology</td>
<td>BIOL 1100</td>
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<tr>
<td>3</td>
<td>CHM 25500 Organic Chemistry</td>
<td>CHM 11600</td>
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<td>CHM 25600 Organic Chemistry</td>
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<td>CHM 25501 Organic Chemistry Laboratory</td>
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<td>CHM 25601 Organic Chemistry Laboratory</td>
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<tr>
<td>3</td>
<td>UCC Oral Communication Selective (COM 11400, COM 21700, SCLA 10200)</td>
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<td>Humanities Social Sciences</td>
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<th>Spring 3rd Year</th>
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<tbody>
<tr>
<td>3</td>
<td>BCHM 30700 Biochemistry</td>
<td>CHM 25600</td>
<td>4</td>
<td>PHYS 22100 General Physics or PHYS 23400 Physics for Life Sciences II</td>
<td>PHYS 22000 or PHYS 23300</td>
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<tr>
<td>4</td>
<td>PHYS 22000 General Physics or PHYS 23300 Physics for Life Sciences</td>
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<td>4</td>
<td>BIOL 22100 Microbiology</td>
<td>BIOL 1100</td>
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<td>4</td>
<td>ANSC 31100 Animal Breeding and Genetics</td>
<td>BIOL 11100 STAT30100</td>
<td>2-3</td>
<td>ANSC Restricted Selective</td>
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<tr>
<td>3</td>
<td>ANSC 33300 Reproductive</td>
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<td>UCC Oral Communication Selective</td>
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<tr>
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<td>ANSC 48100 Contemporary Issues in Animal Sciences</td>
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<td>4-6</td>
<td>Animal Science Restricted Selective</td>
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<td>Humanities or Social Science Selective (30000+ level)</td>
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<td>2-3</td>
<td>Elective</td>
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<td>3</td>
<td>Written or Oral Communication Selective (20000+)</td>
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<td>STAT 30100</td>
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<td>13-16</td>
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<td></td>
<td>15-17</td>
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</table>

The student is ultimately responsible for knowing and completing all degree requirements. myPurdue Plan is knowledge source for specific requirements and completion.
Pre-Vet Curriculum and B.S. in ANSC (3+1 Program)
Minimum: 100 credits*

| Name: _________________________________ | Advisor: _______________________ | Date: ___________
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<tr>
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<td>plus (0.5) _____ AGR 11400</td>
<td>and (1) _____ VM 10200</td>
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<td>(4) _____ BIOL 22100</td>
<td>or (3) _____ BIOL 43800 + (2) _____ BIOL 43900</td>
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<td>(3) _____ BIOL 23100</td>
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<td>or (3) _____ ENGL 10800</td>
<td>or (3) _____ HONR 19903</td>
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<td>(3) _____ COM 11400</td>
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<td>(3) _____ ANSC 22100</td>
<td>(2) _____ ANSC 12100</td>
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<td>or (3) _____ CHM 33900</td>
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<tr>
<td>(4) _____ PHYS 22000</td>
<td>or PHYS 23300</td>
<td>and (4) _____ PHYS 22100</td>
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<td>(3) _____ MA 16010</td>
<td>or (5) _____ MA 16100</td>
<td>or (4) _____ MA 16500</td>
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<td>(3) _____ STAT 30100</td>
<td>or (3) _____ STAT 50300</td>
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<td>(3) _____ Humanities (HUM Selective)</td>
<td>(0) _____ International Understanding Selective</td>
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<tr>
<td>(3) _____ Humanities or Soc. Sci. Selective (BSS Selective)</td>
<td>(0) _____ Multicultural Awareness Selective</td>
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<tr>
<td>(3) _____ Humanities or Soc. Sci. Selective</td>
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</tr>
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</table>

**Animal Sciences Restricted Selectives**

Select 6 credits from a minimum of 2 of the following course groupings:

| (3) _____ Behavior/Well-being (ANSC 30300 or 40400) | (2-3) _____ Nutrition (ANSC 32500, 32600, 52200, or 52400) |
| (2-3) _____ Physiology (ANSC 33200, 55100, or 55500) | (2-3) _____ Reproduction (ANSC 42500, 42600, or 53500) |
| (2-3) _____ Products (ANSC 30100, 35100, 35101†, 36000, or 55200) | |
| (3) _____ Genetics (AGRY 32000, 32100†; ANSC 51300 or 51400; or BIOL 41500) |

*Of the 100 total credits required, a minimum of 32 credits must be at the 30000+ level. If the student attends Veterinary School at Purdue, courses taken at the Vet School count toward the 30000+ rule. If a student attends a professional school other than at Purdue, a minimum of 32 credits at the 30000+ level must be earned at Purdue.

†Be aware that ANSC 35100 and AGRY 32000 are pre-/co-requisites for ANSC 35101 and AGRY 32100, respectively.

University Core Curriculum (UCC) Foundational Learning Outcomes include, but are not limited to:

STS=Science, Technology and Society | HUM=Human Cultures: Humanities | BSS=Human Cultures: Behavioral/Social Sciences
Purdue Veterinary School Requirements as of Fall 2022

Checklist for ANSC Pre-Vet Majors
Applying to Vet School at Purdue (66 credits)*

| Name: _______________________________ | Advisor: __________________ | Date: ___________
|--------------------------------------|-----------------------------|------------------|

1. (1) _____ VM 10200
2. (4) _____ BIOL 11000
3. (4) _____ ANSC 31100
4. (4) _____ ENGL 10600
5. (3) _____ COM 11400
6. (4) _____ CHM 11500 or (4) _____ CHM 11600
7. (3) _____ CHM 25500 or (1) _____ CHM 25501
8. (3) _____ CHM 25600 or (1) _____ CHM 25601
9. (3) _____ BCHM 30700 or (3) _____ BCHM 56100 or (3) _____ BCHM 56200
10. (4) _____ BIOL 22100 or (3) _____ BIOL 43800 and (2) _____ BIOL 43900
11. (4) _____ PHYS 22000 or (4) _____ PHYS 23300
12. (4) _____ PHYS 22100 or (4) _____ PHYS 23400
13. (3) _____ STAT 30100 or (3) _____ STAT 50300

Humanities/Social Sciences Electives:
1. (3) ______
2. (3) ______
3. (3) ______

Not required, but highly recommended:
1. _____ ECON 21000, 25100, or 25200
2. _____ ANSC 10200
3. _____ ANSC 32400
4. _____ ANSC 22100
5. _____ ENGL 42000 or 42100
6. _____ MGMT 20000 or 21000
7. _____ CSR 10300 or 32400
8. _____ BIOL 53700
9. _____ CHM 22400
10. _____ CHM 22400

*These courses are the bare minimum to meet eligibility to apply. Veterinary School still places a high value on rigor. Minimum GPA of 3.00 in classes is required. A minimum of C- is required of core science electives.
Minors at Purdue University

A major in Animal Sciences may also obtain a minor in several disciplines outside of the College of Agriculture as well as within the College of Agriculture. An Animal Sciences major cannot obtain a minor in animal science. Students interested in additional information regarding a minor should contact their primary academic advisor or Ashley York (CRTN 1058A, 765-494-4843, ashleyyork@purdue.edu).

The Agricultural faculty has adopted the policy that a student must declare any minors prior to the conclusion of the ninth week of the student's final semester before degree certification for them to be certified and posted to the academic record.

ACCT  Accounting  DSIN  Design and Innovation
ADGT  Advanced Global Technology  EAPS  Earth, Atmospheric, and Planetary Sciences
AEST  Aerospace Studies  ECON  Economics
AFAS  African American Studies  ECEN  Electrical and Computer Engineering
ASM  Agricultural Systems Management  EETC  Electrical Engineering Technology
AMST  American Studies  ETBA  Electronic and Time-Based Art
ANSC  Animal Science  EGPP  Engineering and Public Policy
ANTR  Anthropology  ENGL  English
AQSC  Aquatic Sciences  EEE  Environmental and Ecological Engineering
ARLC  Arabic Language and Culture  ENPP  Environmental Politics and Policy
AREG  Architectural Engineering  EMM  Event and Meeting Management
ARTS  Art and Design Studio  FARM  Farm Management
AHST  Art History  FERM  Fermentation Sciences
ASAM  Asian American Studies  FILV  Film & Video Studies
ASIA  Asian Studies  FDAG  Food and Agribusiness Management
ASTR  Astronomy  DDSC  Food Science
BCHM  Biochemistry  FNN  Foods and Nutrition
BINF  Bioinformatics  FRSC  Forensic Sciences
BIOS  Biological Sciences  FOEC  Forest Ecosystems
TBIO  Biometrics  FRNC  French
BTCH  Biotechnology  FRCL  French Cultural Studies
BUEC  Business Economics  FURN  Furniture Design
FRNB  Business French  GRMN  German
CHEM  Chemistry  FLES  Global Engineering Studies
CHNS  Chinese  GFAS  Global Food and Agriculture Systems
CLCS  Classical Studies  FLLS  Global Liberal Arts Studies
COMU  Communication  GLOB  Global Studies
CNIT  Computer and Information Technology  HIST  History
CS  Computer Science  HORT  Horticulture
CNEB  Construction Engineering  HTMI  HTM International Studies
CNGR  Construction Graphics  HDFS  Human Development and Family Studies
CM  Construction Management  HRMM  Human Resource Management
CRTV  Creative Writing  HURS  Human Rights Studies
CDSS  Critical Disability Studies  INNO  Innovation and Transformational Change
CRPS  Crop Science  IBIO  Insect Biology
DANC  Dance  IPLE  Intellectual Property Law for Engineers
DDAG  Data Driven Agriculture  INTA  International Studies in Agriculture
ISLM  Islamic Studies
ITALM  Italian
JPNS  Japanese
JWSH  Jewish Studies
LATF  Landscape and Turf Management
LAND  Landscape Management
LALS  Latin American and Latino Studies
LAWS  Law and Society
LSED  Learning Sciences in Educational Studies
LGBQ  LGBTQ Studies
LING  Linguistics
MGMT  Management
MANF  Manufacturing
MSEB  Materials Science and Engineering
ECME  Mathematical Economics
MATH  Mathematics
MILT  Military Science and Leadership
MUSH  Music History and Theory
NAMI  Native American and Indigenous Studies
NREV  Natural Resources and Environmental Sciences
NAVL  Naval Science
NUCL  Nuclear Engineering
NUTR  Nutrition
OCCH  Occupational Health Science
OLSV  Organizational Leadership
PEAC  Peace Studies
PTFD  Pet Food Processing
PHIL  Philosophy
PHYS  Physics
PLBI  Plant Biology
PLTP  Plant Pathology
POL  Political Science
PTGS  Portuguese
PRLM  Product Lifecycle Management
PRWR  Professional Writing
PSY  Psychology
RADH  Radiological Health Sciences
RELG  Religious Studies
RUSS  Russian
SMEV  Smart Manufacturing Enterprise
SOC  Sociology
SOIL  Soil Science
SPNS  Spanish
SPRO  Spanish for the Professions
STAT  Statistics
SCTE  Supply Chain Engineering Technology
SUSE  Sustainable Engineering
SUEV  Sustainable Environments
SFS  Sustainable Food and Farming Systems
THTH  Theatre
THDP  Theatre Design and Production
TFMG  Turf Management
AUAS  Unmanned Aerial Systems
UFOR  Urban Forestry
WDSC  Weed Science
WLFS  Wildlife Science
WGSS  Women’s, Gender, & Sexuality Studies
WPMT  Wood Products Manufacturing Technology
ANIMAL SCIENCES COURSES

Undergraduate Level/Lower-Division Courses

AGR 10100 Introduction to the College of Agriculture and Purdue University Sem. 1. Class 1, Cr. 0.5. Course meets during weeks 1-8. Co-requisite: One course selected from AGR 11100 to AGR 12400.

Students are introduced to the College of Agriculture and Purdue University. Specific areas discussed include the diversity of career opportunities within agriculture, the relationships between different areas of agriculture, ethics, the impact of undergraduate coursework, including the core curriculum, on scholarship and career preparation, and the challenges facing the food, agricultural, and natural resource system. The use of guest lecturers provides a networking opportunity for students. Enrollment in this course is restricted to beginning freshmen students. Faculty/Staff from the Office of Academic Programs.


An introduction to academic programs offered in the Department of Animal Sciences. Topics include, but are not limited to, undergraduate plans of study, courses, experiential programs, internships, student organizations, career opportunities, academic policies, scholarships, and student services. Dr. Mathew and Ashley York.

ANSC 10200 Introduction to Animal Agriculture Sem. 1 and 2. Class 2, Lab. 2, Cr. 3.

In a collaborative environment, we will explore the science and industry management of companion, exotic, food, and laboratory animals. You will learn about the breadth of animal contributions to society and career opportunities in the animal industries. Credit cannot be obtained for both ANSC 10100 and ANSC 10200. Required for ANSC majors classified as freshmen and sophomores. Dr. E. Karcher.

ANSC 10600 Biology of Companion Animals Sem. 2. Class 3, Cr. 3.

Introduction to the various aspects of companion animal biology. Topics include anatomy, physiology, health, immunity, nutrition, growth, digestion, metabolism, behavior, genetics, reproduction, and lactation. Dr. Allrich.

ANSC 12100 Ethics of Animal Use Sem. 1 and 2. Class 2, Cr. 2

The Ethics of Animal Use explores ethical issues relating to animal use in contemporary society. It integrates philosophical theories with scientific evidence relating to the use of animals in agriculture, biomedical research, companion animals, and issues relating to wildlife and the environment. Dr. Fernandez.
**ANSC 18100 Orientation to Animal Sciences** Sem. 2. Class 2, Cr. 1.

Introduction to the faculty, programs, opportunities, career preparation, and personal development requirements needed to succeed in a career in the animal industries. Course meets during weeks 1-8. Class trip is optional. Students pay lodging or meal expenses when necessary.

**ANSC 22100 Principles of Animal Nutrition** Sem. 1 and 2. SS. Class 3, Cr. 3.

Prerequisites: CHM 11100 or CHM 11500 and sophomore, junior or senior classification. Available as Distance Learning course.

Classification and function of nutrients, deficiency symptoms, digestive processes, characterization of feedstuffs, and formulation of diets for domestic animals. Offered at Vincennes University and Purdue University's Fort Wayne regional campus. Distance learning course is available for non-ANSC students at Purdue and for non-Purdue students. Dr. Forsyth.

**ANSC 23000 Physiology of Domestic Animals** Sem. 1, 2 and SS. Class 3, Lab 2, Cr. 4.

Prerequisite: BIOL 11000, or BIOL 11100, or BIOL 12100 or BIOL 13100.

A lecture and laboratory course designed to present physiology of domestic farm animals, Function of tissues and organs, maintenance of internal steady-state conditions, and body responses to external environmental conditions will be presented. Physiological mechanisms involved in lactation, growth, and reproduction will be included. Drs. Allrich and Cabot.

**ANSC 24000 Principles of Animal Production** Sem 1 and 2. Class 2, Lab 1, Cr. 3.

A comprehensive overview of production systems including life cycles and animal requirements for non-ruminant and ruminant farm animal species. How animal production is affected by the environment, availability of resources, and market access will be emphasized. Data requirements and interpretation for decision making will be highlighted. Drs. Ebner and Fernandez.

**ANSC 24500 Applied Animal Management** Sem. 1 and 2. Class 1, Lab. 3, Cr. 2.

Skills and practices related to handling and care of beef and dairy cattle, horses, poultry, sheep, and swine.

**ANSC 25500 Principles of Animal Products** Sem 1 and 2. Class 2, Lab 1, Cr. 3

Survey of the animal product industries; meat, dairy, eggs, and wool. Meat as a food, conversion of muscle to meat, conversion of dairy to dairy products, food safety, food quality, inspection, and basic processing, in addition to basic wool production. Dr. Zuelly

**ANSC 28100 Career Planning in Animal Sciences** Sem. 2. Class 1, Cr. 1.

A seminar course designed to inform students of the many career opportunities in the animal industry, develop their resume, networking, job seeking and interview skills. More than 20 Animal Sciences alumni connect with students and share about the diverse careers with a BS, MS, PhD or DVM. The class focuses on using ones strengths to find your career passion. Barry Delks.
ANSC 29300 Special Assignments Sem. 1 and 2. SS. Cr. 1-3.
  Reading, discussions, written reports, seminar presentations, teaching, field or laboratory experiences provided for enrichment in special areas of animal science. To be arranged with individual staff members prior to registration. Approval of the department head required. Combination of ANSC 29300 and 49300 cannot exceed six credits. Pass/No Pass grading option only. Staff.

ANSC 29500 Special Topics in Animal Sciences Sem. 1 and 2. SS. Cr. 0-3.
  Lecture presentation of specialized material not available in formal courses of the department. The specific topic that is offered will be indicated on the student's record. May be repeated for credit with variable title. Permission of instructor required. Staff.

ANSC 29500 Readings: Navigating First-Year Transitions Sem. 1. Cr. 1.
  This course focuses on directed reading and discussion of books and other documents of significant importance and current issues of interest to animal scientists, including science, agriculture, food systems, renewable natural resources, the environment, and society. Dr. Fernandez

ANSC 29500 Meat Evaluation Sem. 2. Cr. 1.
  The objective of this course is to provide students the opportunity to participate in intercollegiate meat judging competitions. In training for these competitions, students gain valuable skills in areas such as critical thinking, animal and meat industry knowledge, problem solving, and written communication skills. Dr. Zuelly.

Undergraduate Level/Upper-Division Courses

ANSC 30100 Animal Growth, Development and Evaluation Sem. 1. Class 2, Lab. 4, Cr. 4. Junior or senior classification.
  A study of meat animal growth and developmental processes, including micro and gross anatomy, and factors that affect body/carcass composition with application to animal and carcass evaluation. Dr. Blanton.

ANSC 30300 Animal Behavior Sem. 2. Class 2, Lab. 2, Cr. 3. Junior or senior classification.
  Discussion of animal behavior with emphasis on developing an understanding of the reasons domesticated animals react the way they do toward their kind and to humans. The laboratory will be used for observation of behavior patterns in animals. Solutions for unusual behavior include behavior modification techniques. Dr. Erasmus.

ANSC 31100 Animal Breeding and Genetics Sem. 1 and 2. Class 3, Lab. 2, Cr. 4. Prerequisite: STAT 30100 or 50300.
  Genetic principles and their applications in improvement of production efficiency in livestock. Dr. Lofgren.

ANSC 32500 Applied Ruminant Nutrition Sem 1, 2. Class 1, Lab. 2, Cr. 2. Prerequisite 22100.
  Application of the principles of ruminant nutrition to the formulation and feeding of supplements and complete rations for animals; ration ingredients and substitution values; computer applications; legal aspects of feed formulation; and industry practices. Dr. Radcliffe.
ANSC 32600 Applied Non-ruminant Nutrition  Sem 1, 2. Class 1, Lab. 2, Cr. 2.
Prerequisite 22100.
Application of the principles of non-ruminant nutrition to the formulation and feeding
of supplements and complete rations for animals; ration ingredients and substitution values;
computer applications; legal aspects of feed formulation; and industry practices. Dr.
Schoonmaker.

ANSC 33100 Horses in Human History and Culture  Summer. Cr. 3.
A multi-disciplinary course that introduces students to the history of the human-horse
relationship in a global context. Because the history of horse and human interaction is so
broad and so important to the development of civilization, the course will include a broad
view of horses in the context of agriculture, transportation, sport, culture and art. Dr. Brady.

ANSC 33200 Environmental Physiology of Domestic Animals  Sem. 2. Class 2, Cr. 2.
Prerequisite: ANSC 23000.
Interactions of environmental factors with physiological processes in domestic
animals. Dr. Allrich.

ANSC 33300 Physiology of Reproduction  Sem. 1 and 2. Class 3, Cr. 3. Prerequisite:
ANSC 23000 or BIOL 20300 and 20400.
Basic information on the physiological processes of reproduction. Drs. Pasternak and
Stewart.

ANSC 34500 Animal Health Management  Sem. 1. Class 3, Cr. 3. Prerequisite: ANSC
22100 and 23000.
The objectives of this course are to familiarize the student with disease processes, and
mechanisms. Management techniques in food, companion and research species that minimize
or prevent disease will be emphasized, as well as the consequences on animal production,
reproduction, and human health. Dr. Allrich.

ANSC 35100 Meat Science  Sem. 2. Class 3, Cr. 3. Junior or senior classification.
Study of muscle and meat, principles involved in the conversion of living animals to
meat and by-products; efficient utilization of all types of meat as food. Dr. Kim.

ANSC 35101 Meat Science Laboratory  Sem. 2. Lab. 2, Cr. 1. Prerequisite or corequisite:
ANSC 35100.
Application of scientific principles to the meat industry, with emphasis on all aspects
of processing including: harvest; carcass grading and evaluation; fabrication; cured, smoked,
and comminuted meat products; quality control; product development; and retail and food
service merchandising. Dr. Zuelly.

ANSC 36000 Muscle Food Production and Safety  Sem. 1. Class 2, Lab 2, Cr. 3.
Prerequisite 25500.
Study the science, art, and economics of processed meats. Investigate methods to add
value to meat and meat products, including hands-on processing, new product development,
and industry tours. Study of meat-borne pathogens and methods of control. Science and
practical aspects of food safety in meat production. Seven principles of HACCP will be
investigated and each student will receive HACCP Certification from the International
HACCP Alliance. Dr. Zuelly.
ANSC 37000 Livestock Evaluation  Sem. 2. Lab 6, Cr. 2. Junior or senior classification.
This course is designed to develop logical thinking and speaking skills, while developing the ability to critically evaluate livestock in their production environments. Prior experience in public speaking or judging is not required. Combination of ANSC 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC electives. Requires class trips. Students pay lodging or meal expenses when necessary.

ANSC 37100 Dairy Evaluation  Sem. 2. Lab 6, Cr. 2. Sophomore, junior or senior classification.
This course will enable the student to become familiar with breeds of dairy, parts of dairy cattle and their relationship to function. Opportunities will exist to associate with people from various breed organizations within the dairy industry. Combination of ANSC 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC electives. Requires class trips. Students pay lodging or meal expenses when necessary.

ANSC 38100 Leadership for a Diverse Workplace  Sem. 2. Class 3, Cr. 3. Prerequisite: AGR 20100 or a course on the College of Agriculture Multicultural Awareness list. Junior or senior classification in animal agribusiness or animal production or animal products or animal sciences major.
An interactive small group discussion class covering effective interpersonal and group skills needed to enhance career satisfaction in a diverse workplace including building networks within industry, cross-cultural communication and gaining experiences in group problem-solving and decision making.

ANSC 39000 Animal Sciences Internship  Sem. 1 and 2. SS. Cr. 0. Prerequisite: Animal Sciences major.
Internships with producers, businesses, or agencies arranged in cooperation with faculty coordinator. Permission of department required. Dr. E. Karcher.

ANSC 39300 Animal Industry Travel Course  Sem. 2. SS. Class 0-1, Lab. 2, Cr. 1-2.
A classroom and travel course designed to expose students to animal production operations, agribusinesses, industry leaders, and their philosophies throughout various geographical areas of the United States. Travel is conducted during spring break and includes visits to animal production farms, universities, and agribusinesses. Consent of instructor required. May be repeated for a maximum of three credits; limited to two credits toward Animal Sciences electives; offered in odd numbered years. Additional fee required. Staff.

ANSC 40000 Animal Sciences Study Abroad  Sem. 1 and 2. SS. Cr. 0-8.
Utilized to record credits earned through participation in Purdue study abroad programs with cooperating foreign universities. May be repeated for credit. Staff.

ANSC 40400 Animal Welfare  Sem. 1. Class 2, Lab. 2, Cr. 3. Junior or senior classification.
A multi-disciplinary course that introduces students to the fields of animal welfare and the ethics of animal use. The course will emphasize farm animal welfare and production issues. Dr. Erasmus.

ANSC 42500 Ruminant Reproductive Farm Management  Sem. 1, 2. Class 1, Lab. 2, Cr. 2. Prerequisite: ANSC 33300.
This course will teach how to apply the animal science disciplines such as nutrition, genetics, physiology, and animal behavior in a systems approach that will result in the desired level of reproductive performance. Animal handling skills associated with
reproductive management of beef cattle, dairy cattle, goats, and sheep will be discussed. Laboratories require use of both live animals and animal specimens. Dr. Stewart.

**ANSC 42600 Non-ruminant Reproductive Farm Management** Sem. 1, 2. Class 1, Lab. 2, Cr. 2. Prerequisite: ANSC 33300.

This course will teach how to apply the animal science disciplines such as nutrition, genetics, physiology, and animal behavior in a systems approach that will result in the desired level of reproductive performance. Animal handling skills associated with reproductive management of swine and horses will be discussed. Laboratories require use of both live animals and animal specimens. Dr. Stewart.

**ANSC 44000 Horse Management** Sem. 2. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Current breeding, feeding, housing, selection, disease control, and other management practices essential for sound economic planning of horse operations in today's horse industry. Laboratory farm visits provide students with real application examples and industry contacts. Dr. Brady.

**ANSC 44100 Beef Management** Sem. 1. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Breeding, feeding, and management practices essential for economical beef production, including performance testing. Dr. Lemenager.

**ANSC 44200 Sheep Management** Sem. 2. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Breeding, feeding, and management practices essential for economical sheep production and commercial lamb feeding, including performance testing. Dr. Neary.

**ANSC 44300 Swine Management** Sem. 2. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Breeding, feeding, and management practices essential for commercial swine production, including performance testing. Dr. Schinckel.

**ANSC 44400 Dairy Management** Sem. 1. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Current breeding, feeding, physiology, disease prevention, and management practices essential for economical milk production. Requires class trips. Students will pay individual lodging or meal expenses when necessary. Dr. Boerman.

**ANSC 44500 Commercial Poultry Management** Sem. 2. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

Current developments and practices in the commercial production of eggs, broilers, and turkeys; principles of breeding, physiology, nutrition, management, and disease prevention. Requires class trips. Students will pay individual lodging or meal expenses when necessary. Dr. Fraley

**ANSC 44600 Companion Animal Management** Sem. 1. Class 2, Lab. 2, Cr. 3. Prerequisite: ANSC 22100 and 23000 and junior or senior classification.

This course details understanding of the economic scope of the pet industry as well as the role of pets in American society. The students will acquire the information to be
responsible pet owners by expanding their knowledge of housing practices, nutritional care, health care, behavior, and breeding of companion animals. Dr. Allrich.

**ANSC 47000 Livestock Judging** Sem. 1. Lab. 3, Cr. 1. Prerequisite: ANSC 37000.  
This course is designed to teach livestock evaluation, relationship of production data to live animal evaluation characteristics, expand logical thinking and reasoning skills, and enhance oral communication skills. Requires class trips. Students will pay individual lodging or meal expenses when necessary.

**ANSC 47100 Dairy Judging** Sem. 1. Lab. 3, Cr. 1. Prerequisite: ANSC 37100.  
Opportunities will exist to allow the student to practice analysis and enhance decision-making processes in placing animals in collegiate dairy contests. Communication skills will be developed to properly present and defend those decisions with confidence. Requires class trips. Students will pay individual lodging or meal expenses when necessary.

**ANSC 48100 Contemporary Issues in Animal Sciences** Sem. 1. Class 1, Cr. 1. Senior classification.  
Industry leaders present case studies reflecting key contemporary issues in the animal industry with student team discussions. Topics include environmental impact, food safety, animal care and well-being, ethics, use of biotechnology, efficient and safe world food supply, current human resource issues and international agricultural trade. Industry representatives share their experiences of the importance of good communication skills as well as technical knowledge of issues that are of concern to animal industries. Students will enhance and develop their communication and team skills as well as prepare and develop their resume, cover letter, interview and networking skills. A key element of this class includes connecting with successful alumni and industry leaders in all areas of the animal industry. Dr. Mathew and Mr. Delks.

**ANSC 48500 Dairy Farm Evaluation** Sem. 2. Leb. 1, lab 2, Cr. 2. Prerequisite: ANSC 44400 and junior or senior classification.  
This course will provide students with an opportunity to integrate and apply knowledge of dairy cattle management systems, nutrition, reproduction, genetics, milk quality, animal handling, physical farm facilities, manure handling and management, personnel and their financial implications. Students will develop critical analysis skills and apply troubleshooting principles in the identification and resolution of dairy farm management issues in a learning environment that is structured around farm evaluation field trips and case studies. Requires class trips. Students will pay individual lodging or meal expenses when necessary. Drs. E. Karcher and Boerman.

**ANSC 49100 Special Problems** Sem. 1 and 2. SS. Cr. 1-3.  
Supervised individual laboratory or library assignments. Written reports required. To be arranged with individual staff members prior to registration. Requires approval of department head. May be repeated for a maximum of six credits with approval of department head. Staff.

**ANSC 49300 Special Assignments** Sem. 1 and 2. SS. Cr. 1-3.  
Reading, discussions, written reports, seminar presentations, teaching, field or laboratory experiences provided for enrichment in special areas of animal science. To be arranged with individual staff members prior to registration. Approval of department head required. Combination of ANSC 29300 and 49300 can not exceed six credits. Pass/No Pass grading option only. Staff.
ANSC 49500 Cracking the Poultry Industry. Sem. 2. Cr. 1.

The objective of this course is to provide an overview of the U.S. and Indiana Poultry industries. Topics include industry statistics, services offered to the industry, as well as management topics including nutrition and welfare. Drs. E. Karcher and Erasmus.

ANSC 49500 Food Security and Environmental Challenges in Vietnam. Sem. 2. Cr. 3.

The objective of this course is to introduce students to global challenges related to food security and the environment and to develop intercultural learning competencies. Students will meet weekly on campus throughout the semester and travel to Vietnam during Spring Break. Dr. E. Karcher


The objective of this course is to introduce students to animal management practices and product development in Italy and the U.S. Students travel to Italy in July and meet weekly on campus during the Fall semester. This course is a Learning Community and includes off-campus field trips. Dr. E. Karcher and Ashley York.


The objective of this course is to provide students the opportunity to participate in intercollegiate meat judging competitions. In training for these competitions, students gain valuable skills in areas such as critical thinking, animal and meat industry knowledge, problem solving, and written communication skills. Dr. Zuelly.

ANSC 49500 Special Topics in Animal Sciences Sem. 1 and 2. SS. Cr. 0-3.

Lecture presentation of specialized material not available in the formal courses of the department. The specific topic that is offered will be indicated on the student's record. Approval of department head required. May be repeated for credit. Staff.

ANSC 49900 Thesis Research Sem. 1 and 2. SS. Cr. 1-6. Prerequisite: Enrolled in the honors program, animal sciences major.

For students doing specialized animal sciences research; report required. Arrange with academic adviser and honors research coordinator before registering. Permission of instructor required. May be repeated for credit with variable title. Staff.

Dual Level/Undergraduate-Graduate

ANSC 51300 Design of Animal Breeding Programs Sem. 2. Class 3, Cr. 3. Prerequisites: ANSC 31100 and STAT 50300. Junior or senior classification.

Integration of principles of animal breeding and genetics into animal improvement programs. Emphasis is placed on the interaction among genetics, nutrition, and physiology. One semester of applied genetics and population genetics is strongly recommended prior to taking this course as a graduate student. Dr. Schinckel.

ANSC 52200 Monogastric Nutrition Sem. 1. Class 3, Cr. 3. Prerequisites: ANSC 22100 and BCHM 30700 or CHM 33300. Junior or senior classification.

Digestion and absorption, nutrient utilization, and interrelationships in poultry, swine, and other monogastric animals. A semester of animal nutrition and general biochemistry is strongly recommended prior to taking this course as a graduate student. Dr. Adeola.
ANSC 52400 Ruminant Nutrition and Physiology Sem. 2. Class 3, Cr. 3. Prerequisites: ANSC 22100 and BCHM 30700 or CHM 33300. Junior or senior classification.

Physiological, microbiological, and biochemical aspects of digestion and metabolism in the ruminant animal. A semester of animal nutrition and general biochemistry is strongly recommended prior to taking this course as a graduate student. Dr. Schoonmaker.

ANSC 53400 Advanced Reproductive Physiology Sem. 2. Class 3, Cr. 3. Prerequisite: ANSC 33300. Junior or senior classification.

A study of mechanisms that interact to control reproduction in farm animals. Current scientific literature and hypotheses are presented, and potential methods to enhance reproductive efficiency are examined. A semester of reproductive physiology is strongly recommended prior to taking this course as a graduate student. Dr. Machaty.

ANSC 53500 Avian Physiology (BMS 52800) Sem. 2. Class 2, Cr. 2. Prerequisites: ANSC 23000 or BIOL 20300 and 20400. Junior or senior classification.

A study of the basic principles of physiology and functional anatomy of birds. Topics include the following systems: muscular, nervous, cardiovascular, respiratory, digestive, lymphoid, endocrine, and reproductive. A course or courses that cover all of the systems of the body should be completed prior to taking this course as a graduate student.

ANSC 53600 The Digestive System in Health and Disease Sem. 2. Class 2, Cr. 2. Prerequisite: BCHM 56100. Junior or senior classification.

Comparative study of the physiology of the gastrointestinal tract focused on the importance of, and interactions between, gut physiology, gut associated immune system and intestinal microorganisms in relation to health and disease. Offered in even numbered years. Offered in odd numbered years. One semester of graduate level general biochemistry is strongly recommended prior to taking this course as a graduate student. Staff.

ANSC 53700 Adipocyte Biology Sem. 2. Class 2. Cr. 3. Prerequisites: ANSC 23000 and BCHM 30700. Junior or senior classification.

Provide the student with a conceptual background in the development of adipose tissue and its biological function; with emphasis on the endocrine and immunologic aspects of the adipocyte. Differences between species will be emphasized where possible. Dr. Ajuwon.

ANSC 55200 Advanced Meat Science Sem. 1. Class 3, Cr. 3. Prerequisites: ANSC 35100 and BCHM 30700.

Meat and meat products contribute essential nutrients, such as protein, vitamins and minerals to the diet that are crucial for human health. Muscle is the primary component of meat, and thus understanding muscle structure, muscle biology and muscle biochemistry is a fundamental step toward discussing advanced meat science and current technology adopted in the meat industry. In this course, comprehensive coverage in meat science and muscle biology/biochemistry, meat technology, and processing application will be examined through critical reading of literature, classroom lecture/discussion, written assignments, and/or student projects. Dr. Kim.

ANSC 55500 Mechanisms of Animal Growth Development Sem. 2. Class 3, Cr. 3. Prerequisites: BCHM 30700 or CHM 33300 and ANSC 30100 or BIOL 23100. Junior or senior classification.

A study of the molecular and cellular processes controlling embryonic development and growth of domesticated animals. Includes discussions of current research concerning
molecular mechanisms of fertilization, egg activation, and early development and endocrine factors controlling cell growth, differentiation and tissue formation, and turnover. Experimental approaches utilized for developmental and growth biology research are discussed. A semester of cell biology and biochemistry are strongly recommended prior to taking this course as a graduate student. Dr. Kuang.

ANSC 59500 Advanced Animal Welfare Assessment Sem. 1, Class 2, Lab. 2, Cr. 3.

This course will provide students with an advanced understanding of animal welfare science as it pertains to welfare assessment strategies by engaging them in discussion of core papers pertaining to the science of animal welfare. Drs. Erasmus.

ANSC 59500 Special Topics in Animal Sciences Sem. 1 and 2. SS. Cr. 0-3. Junior or senior classification.

Lecture presentation of specialized material not available in the formal courses of the department. The specific topic that is offered is indicated on the student's record. Permission of instructor required. May be repeated for credit. Staff.
Specialized Courses in Animal Sciences

ANSC 29300 and 49300

SPECIAL ASSIGNMENTS

ANSC 29300 (el. 3 or 4) or ANSC 49300 (el. 5 to 8) Sem. 1 and 2. SS. Cr. 0-3. To be arranged with individual staff members prior to registration. Approval of the department head required. Combination of ANSC 29300 and 49300 cannot exceed six credits.

Reading, discussions, written reports, seminar presentations, teaching, field or laboratory experiences provided for enrichment in special areas of animal science. Staff.

It is difficult to describe or put limits on ANSC 29300 and 49300 and it is not the objective of these guidelines to stifle the different approaches to Special Assignments. However, the intent of the course is to provide an opportunity for the undergraduate to gain knowledge of a specific topic, subject, or skill. ANSC 29300 or 49300 Special Assignments should be a learning experience or activity not available in a regular, formal course structure. Examples might include such things as individuals gaining laboratory skills, participation in extension activities, or peer teaching experiences.

GUIDELINES

1. Any member of the Animal Sciences faculty may assume responsibility for directing an ANSC 29300 or 49300 Special Assignment.

2. It is advisable that a student has a grade point average of $\geq 3.00$ when requesting an ANSC 29300 or 49300 Special Assignment. Approval of ANSC 29300 or 49300 for students with a grade point average $< 3.00$ may be granted under extenuating circumstances.

3. ANSC 29300 or 49300 should not be added after the second week of the semester except under extenuating circumstances.

4. A minimum of 32 hours of student time should be used to complete each credit of ANSC 29300 or 49300. An interested student involved with a challenging activity may spend much more time than the minimum hour requirements.

REQUIREMENTS AND RESTRICTIONS

1. Individual faculty member and student must agree on the topic, credits, and ground rules before registration for the course.

2. Prior to enrolling a student in ANSC 29300 or 49300, the supervisor and student must complete a form describing the nature of the experience to the Undergraduate Programs Committee. The Undergraduate Programs Committee will decide if the problem conforms to the guidelines established by the ANSC faculty and will have the authority to prohibit the offering of the problem if it does not meet the standards set by the ANSC faculty. Upon approval, the Teaching Coordinator will send a letter to the supervisor, student counselor and student detailing the expectations for completion of the course.
3. A written report or portfolio/diary for the professor in charge is required. An additional copy of the report or portfolio/diary must be submitted to the Teaching Coordinator by the deadline established for delivery of all other departmental course grades. Failure to do so will result in a grade of I (incomplete) being forwarded to the Registrar. The report will be available for perusal by interested ANSC faculty.

4. An individual faculty member may supervise not more than two ANSC 29300 or 49300 Special Assignments in a semester without the approval of the Department Head.
ANSC 29300/49300 - SPECIAL ASSIGNMENTS

Student’s Name: ___________________________________________ Date: _________

Student’s Signature:
_________________________________________________________________________

Student’s Email: ________________________________________________

Problem Title (≤ 30 characters): ___________________________________________

Numbers of Credits for Project (32 hours/credit; 3 credits max.): ______________

Current GPA (≥ 3.0): _________  Hours Completed: _________  Classification: _____

Project Supervisor: _________________________________________________

Academic Advisor: _________________________________________________

Semester Conducting Project: ___________________________________________

Semester Registering for Project: ____________________________  Hours Registered: _______

Description of problem:

___________________________________________________________________________

Specific involvement of student:

___________________________________________________________________________

For Teaching Committee Use

Approve ____________

Not Approve ____________

Reason(s): ______________________________________________________________
ANSC 29500, 49500 and 59500
SPECIAL TOPICS IN ANIMAL SCIENCES

Special Topics in Animal Sciences Sem. 1 and 2. SS. Cr. 0-3. Approval of department head required. May be repeated for credit.

Lecture presentation of specialized material not available in formal courses of the department. The specific topic that is offered will be indicated on the student's record. Staff.

It is difficult to describe or put limits on Special Topics classes and it is not the objective of these guidelines to stifle the different approaches to these courses. However, the intent of the course is to provide an opportunity for a student to gain knowledge of specialized material not available in formal courses in the department.

GUIDELINES

1. Any member of the Animal Sciences faculty may assume responsibility for directing a Special Topics course.

2. Special Topics should not be added after the second week of the semester except under extenuating circumstances.

3. A minimum of 32 hours of student time should be used to complete each credit of Special Topics. An interested student involved with a challenging activity may spend much more time than the minimum hour requirements.

REQUIREMENTS AND RESTRICTIONS

1. Individual faculty member and student must agree on the topic, credits, and ground rules before registration for the course.

2. Prior to enrolling a student in Special Topics, the faculty member and student must complete a form describing the nature of the experience to the Undergraduate Programs Committee. The Undergraduate Programs Committee will decide if the problem conforms to the guidelines established by the ANSC faculty and will have the authority to prohibit the offering of the problem if it does not meet the standards set by the ANSC faculty.

3. An individual faculty member may supervise not more than two Special Topics in any one semester without the approval of the Department Head.
ANSC 29500 or 49500 - SPECIAL TOPICS IN ANIMAL SCIENCES

DESCRIPTION

Student’s Name: _______________________________ Date: _________
Student’s Signature: _____________________________
Student’s Email: ________________________________

Problem Title (≤ 30 characters): _____________________________

Numbers of Credits for Project (32 hours/credit; 3 credits max.): ________________

Current GPA (≥ 3.0): _________ Hours Completed: ________ Classification: _____

Project Supervisor: ______________________________________

Academic Advisor: ______________________________________

Semester Conducting Project: _______________________________

Semester Registering for Project: ________________________ Hours Registered: _______

Description of problem:

___________________________________________________________________________

Specific involvement of student:

___________________________________________________________________________

For Teaching Committee Use

Approve __________

Not Approve __________

Reason(s): ________________________________________________________________
The Animal Sciences Internship is a cooperative educational program between the Department of Animal Sciences and employers who provides facilities and instruction to assist students in improving skill and knowledge needed for their chosen vocation. The internship program is an off-campus supervised field experience related to the student's professional interest. The internship is available for variable credit with the opportunity to earn up to three credits during the fall, spring, or summer semesters. A maximum of three hours of intern credit can be earned as free electives.

The internship is available each regular semester and during the ten-week summer session to students majoring in Animal Sciences. The course is limited to students who have sophomore, junior, or senior classification and approval of the Animal Sciences Undergraduate Programs Committee. Any student with good standing with Purdue University may enroll.

Students seeking internship experiences are to complete a course application form stating the kind of internship desired and their preference for geographic location. Prior to the beginning of the semester in which the internship is to be taken, the student must arrange a personal or telephone interview with a representative of the cooperating agency. The student's academic advisor and the agency representative must determine whether an available position will provide an experience that supports the student's academic and career objectives. Further, they should be assured that the student's interests and academic preparation would satisfy the demands of the cooperating agency. On approval of the agency representative, and the work description or schedule of anticipated activities, the student will submit the "Plan for Internship" to the Animal Sciences Undergraduate Programs Committee. At that time, the internship agreement will be completed. The completed and signed agreement must be submitted to the Animal Sciences Undergraduate Programs Committee before the student begins his/her internship program.

The student may schedule the course for variable credit (one to three hours) in a semester for a total of three hours for the entire undergraduate career. The credit will be based upon the evaluation of the position by the academic advisor and Animal Sciences Undergraduate Programs Committee using the following criteria: (1) number of skills to be learned, (2) nature of the skills and knowledge the student can acquire that cannot be obtained at the University, (3) the individual needs of the student, and (4) the amount of time committed to the internship.

The student will register for the course the first semester following his/her return to campus from the internship when the assignment of the written report and oral presentation is completed. See your academic advisor or Dr. Elizabeth Karcher, Undergraduate Programs Coordinator, in Creighton Hall, Room 3022, or Ashley York, Director of Academic Advising, Creighton Hall, Room 1058A, for more details concerning credit for internships.
PLAN FOR INTERNSHIP PROGRAM

Student’s Name _____________________________________________________________

Local Address ____________________________________________________________

Local Phone (_____)__________________  E-mail Address__________________________

Home Address ___________________________________ Home Phone (_____)_________

Academic Advisor __________________________ ANSC                Concentration ____________

Credit Hours Completed ________ Cumulative Grade Point Average ________________

Supervising Agency ________________________________________________________

Type of Enterprise _______________________________________________________

Dates and Duration of Internship __________________________________________

Objectives to be achieved during internship:
I agree to prepare a detailed, typewritten, final report and conduct an oral presentation explaining my internship activities and a record of activities (daily or weekly log) and to include any suggestions for improvement of the program. I will submit the final report, daily or weekly log, and conduct an oral presentation by the last day of the class for the semester for which I am enrolled in the course.

________________________________________________     _______/___/______
Student’s Signature                          Date

I have reviewed this Plan for Internship and find it consistent with the student’s educational objectives.

________________________________________________     _______/___/______
Academic Advisor                          Date

________________________________________________     _______/___/______
Chair, Animal Sciences Undergraduate Programs Committee    Date

The Cooperating agency agrees to provide the student an opportunity to obtain actual experience in the areas outlined above. The student’s immediate supervisor will be:

________________________________________________
Name                          Title

The supervisor agrees to evaluate the efforts of the student and forward an evaluation to the academic advisor on termination of the internship.

___________________________________________     ______/____/_______
Representative of               Date
Cooperating Agency

_______________________________________________________________
Street Address

_________________________                      _______________________
City                             State                   Zip Code

(______)________________________  
Business Phone Number

(______)________________________  
Fax Number

___________________________________
E-mail
GUIDELINES FOR THE STUDENT'S FINAL REPORT

ANSC 39000
ANIMAL SCIENCES INTERNSHIP
DEPARTMENT OF ANIMAL SCIENCES
Purdue University
West Lafayette, IN  47907

GUIDELINES FOR THE STUDENT'S FINAL REPORT

An internship experience is much more than a job. It is a valuable portion of your educational program in preparation for a professional career. For us to evaluate your progress and the outcome of your internship program, a written report and an oral presentation is needed from you describing what you have achieved during the internship. The preparation of this report and presentation will also help you evaluate your professional development leading to your career goals. Your report and presentation should be completed prior to the last class day of the semester in which the student returns to campus.

Final Written Report and Oral Presentation must include:

1. A description of the organizational structure and function of the cooperating agency sponsoring your internship. Describe the responsibility of your colleagues and indicate your assignment within the organizational structure.

2. A discussion of how your pre-planned objectives were implemented and the outcome of each.

3. A detailed description of the activities associated with your area of responsibility evaluated in relation to your interests and educational background.

4. An appraisal of the internship program relative to your interests and career goals.

5. Your suggestions and recommendations to other students who might wish to pursue an internship with your cooperating agency.

6. A presentation to ANSC 18100, 28100 or a related course.

Your supervisor must be given the opportunity to review your written and oral presentation before it is presented to the Department of Animal Sciences. This procedure will help to avoid release of any controversial or restricted information from your employer's point-of-view.
SUPERVISOR’S EVALUATION OF STUDENT PERFORMANCE DURING INTERNSHIP PROGRAM

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Purdue University
West Lafayette, IN 47907-2041

Student’s Name _______________________________________ Date ______________
Job Title of Internship Position ___________________________________________
Supervisor Making Rating ________________________________________________

_______________________________________ (____)________________________
Title

We appreciate your cooperation in rating this student in terms of their performance on internship placement with your agency. Your response will help the academic advisor in assigning a Pass/No Pass grade and identifying areas requiring attention in the student’s continuing professional development. Thank you for your cooperation.

Criteria: Rating: (check one)

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<thead>
<tr>
<th>A. Personal Characteristics:</th>
<th>Excellent</th>
<th>Good</th>
<th>Fair</th>
<th>Unacceptable</th>
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<tr>
<td>Cooperates with management</td>
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<td>Cooperates with other workers</td>
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<td>Willingness to work</td>
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<td>Ethical behavior</td>
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<td>Shows initiative</td>
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<td>Appearance</td>
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<td>Motivation</td>
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<td>Accepts supervision</td>
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<td>Professional attitude</td>
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| B. Improvement in skills:   |           |      |      |              |
| Leadership ability          |           |      |      |              |
| Communication – speaking    |           |      |      |              |
| Communication – writing     |           |      |      |              |
| Mechanical ability          |           |      |      |              |
| Learning new operations easily|       |      |      |              |
| Adapting to a variety of jobs |         |      |      |              |
| Overall skills for industry |           |      |      |              |

| C. Potential for career in this professional industry | |

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INITIAL vs. FINAL SKILLS

1. Was the student adequately prepared to work in your program?
   Yes _______  No _______  Somewhat _______

   List the areas of adequate preparation and the areas where additional preparation would have improved the student’s capability of work in your agency.

2. In your opinion, what are the student’s areas of greatest strength and areas that need improvement?

3. Would you re-employ this student or employ another student with a similar background?
   Yes _______  No _______  Maybe _______

4. What recommendations do you have for us to include in this student’s academic program to more adequately prepare the student for future professional roles?

5. Are you interested in having a similar person for another internship at your agency?
   Yes _______  No _______

6. Additional comments.

Please return this form to:

Elizabeth Karcher, Undergraduate Programs Committee
Purdue University
3022 CRTN
270 S. Russell Street
West Lafayette, IN 47907-2041

Signature ___________________________________  ____/____/_______

Date

Title ___________________________________________________________________________

Supervising Agency __________________________________________________________________
ANSC 49100

UNDERGRADUATE RESEARCH/SPECIAL PROBLEMS

Special Problems  Sem. 1 and 2.  SS.  Cr. 1-3. To be arranged with individual staff members prior to registration. (May be repeated for a maximum of six credits with approval of department head.) Supervised individual research or library assignments.

Course Description
This course provides an opportunity for undergraduate students to engage in the process of animal science research activities. The current College of Agriculture catalog describes the course as a ‘supervised individual research’. You will work directly with a faculty member and potential assistance from members of their research team on an agreed upon project. This interaction will give you experience and contact working with a faculty member. Your involvement in ANSC 49100 should provide you with an experience that is not available in a formal course structure. Your project should be innovative, stimulating, and challenging.

Learning Outcomes
At the completion of the project, you should be able to demonstrate the following skills (please note that not all skills must be met to satisfy the learning outcomes; please select a minimum of one skill for each outcome):

- **Objective 1**: Develop a research question or problem and design a hypothesis-driven experiment
  - Compose a literature review on the topic related to a specific special problem
  - Create a hypothesis that is directly related to the project
  - Define the methodology and techniques that will be used in the project
- **Objective 2**: Develop skills to perform experimental techniques and data analytics
  - Apply and evaluate methodology throughout the project
  - Collect and record data in a manner that is appropriate for the project
  - Learn a computer programming language or statistical software
- **Objective 3**: Critically evaluate the research findings and communicate findings to others.
  - Analyze experimental data using statistical software and data visualization tools and interpret the results obtained
  - Communicate research findings through one of the following: written report, scientific manuscript, conference abstract, or extension article
  - Present the research findings in oral or poster format
Requirements and Restrictions

- Any member of the Animal Science faculty may assume responsibility for directing an ANSC 49100 Special Problem. You must find a faculty member and be in mutual agreement on the subject matter, scope of problem, and ground rules before registration for this course.

- Contacting the faculty member the semester prior to when you would like to register for ANSC 49100 Special Problem is advised.

- Any student in good standing (GPA 2.5) may request to do an ANSC 49100. However, ANSC 49100 is typically an upper level course and it is intended for juniors and seniors.

- The course must be added by the end of the second week of the semester except under extenuating circumstances.

- You may register for 1 to 3 credits. A minimum of 32 hours of student time should be used to complete each credit of ANSC 49100. You can repeat ANSC 49100 for a maximum of six credits.

- Students enrolled must complete a written report or give an oral presentation, which will be evaluated by the faculty mentor.

- Prior to enrolling in ANSC 49100, you should complete the ANSC 49100 Special Problems form via the following link to Dr. Elizabeth Karcher: https://purdue.ca1.qualtrics.com/jfe/form/SV_8piCt9qtJ3uDYSq

- Both Dr. Karcher and the Undergraduate Programs Committee may request modification to the problem or prohibit the offering of the problem if it does not meet the standards set by the ANSC faculty.
College of Agriculture Involvement

The following are just a handful of the many clubs and activities offered at Purdue. Students can find more information for additional options by visiting the following links:

BoilerLink: https://boilerlink.purdue.edu/
College of Agriculture Student Organizations:

Academic Quadrathlon Competition
The academic quadrathlon provides a challenge for Animal Science students in the areas of Animal, Poultry and Food Sciences. Quadrathlon competition consists of four parts: laboratory practicum, written exam, oral presentation and quiz bowl. All aspects of the quadrathlon are team oriented, as one answer is given for each question in the lab practicum and written exam. In the oral presentation, team members must work together to present difficult and complex topics in a simple form. Although the quiz bowl provides an opportunity for individuals to respond, bonus questions are answered on a team basis. Local competition is generally held in February with the winning team traveling to the Midwestern Section of Animal Science competition in March. Competition is open to all Purdue students with an interest in Animal, Food, or Poultry Science. Contact Dr. J. Scott Radcliffe, CRTN 3054, 765-496-7718, for more information.

Ag Council
Membership is limited to 20 agriculture students who are majors in any program in the School of Agriculture. One-year memberships run from January to December. Prospective members must fill out applications during the fall semester and undergo a selection process conducted by current members. There are five officers elected each year from the 20 members. The goals of Ag Council are to foster interactions among students, staff, and members of the community. Examples of sponsored events include an ice cream social, large career fair, mock interviews, Ag Week displays and information booths, dances, and fund raising for charities.

Alpha Zeta
Alpha Zeta is a national agriculture honorary professional fraternity. The goals of Alpha Zeta are to promote agriculture on campus and in the community from all the different perspectives and to provide a group for high scholastic students to come together and be involved in many different activities. Potential members must demonstrate or have the potential for the following characteristics: scholarship, leadership, fellowship and character.

Activities include: regional and national meetings, School of Agriculture Tailgate, leadership and scholarship awards.

Purdue University Poultry Club
The purpose and mission of the Purdue Poultry Club is to promote and help further the interest of avian sciences through support of the poultry industry, fancier exhibitors and species preservation. Students can interact with representatives from the industry and also with Purdue faculty completing poultry research. The club is involved with a variety of activities such as attending special events within the industry, touring facilities of various companies, doing volunteer work
within the community, and participating in the annual Boiler Barnyard event at Purdue. The Purdue Poultry Club is supported by the Turkey Market Development Council and the Indiana State Poultry Association. Anyone with an interest in poultry can join! All students and faculty are welcome to participate in club activities and to attend club meetings.

**Block and Bridle**
Purdue became a member of the National Block and Bridle Club in 1956. It had previously been known as the Hoof and Horn Club since 1917. Character, sincerity and a moral life are asked of members when they are initiated into the club and are depicted in the straight perpendicular of the "B". The distinct curves of the "B" are symbolic of social pleasure, mental energy, and the determination of members. The meat block represents the material aspects of their life and profession. The bridle stands for the behavior of the Block and Bridle members, the control over themselves that they try to maintain, the mannerisms and respect they show towards others, and the manner with which they treat animals.

Activities include: judging contest, Block and Bridle Royal, Tots Day, Black and Gold Classic Sheep Show, regional and national meetings, School of Agriculture Career Fair, School of Agriculture Tailgate, Swine Day, Boiler Barnyard, and softball teams.

**Dairy Club**
The Purdue University Dairy Club is a 40+ member organization that is active in many activities throughout the year. The Dairy Club participates in Boiler Barnyard, the Purdue Royal, ADSA, and the Hoard’s Dairyman Judging Contest. The club also puts on the State-Wide Dairy Judging Invitational, which is a lot of work for the small organization. Members of the club also help with the State 4-H and FFA Dairy Judging Contest. Because of the Dairy Club’s hard work in their many activities, they were recognized as the Top Agricultural Option Club of 2000.

**Purdue Equestrian Team**
The Purdue Equestrian team was founded in 1980 by Jerry Steinmetz to allow interested Purdue students of all experience levels to participate in the sport of riding. Jerry coached the team until 2017, when his daughter, Krista Steinmetz, took over. Students on the team take hunt seat lessons, take care of the horses, and compete in Intercollegiate Horse Show Association (IHSA) horse shows. At shows, the team is very competitive, attending IHSA Nationals 20 times, and ten of those times placing in the top 10.

**Pre-Veterinary Club**
The Pre-Veterinary Club is an informational and social club whose objective is to bring together students that are interested in a career in veterinary medicine. Meetings are held one to two times per month and consist of club business and planning, a guest speaker from the veterinary profession, and a case presentation by a senior veterinary student using a case currently under treatment at the veterinary school. Activities include the Veterinary School Open House in April, finals baskets for fellow students, trips to Wolf Park and the Indianapolis Zoo, and more. The club is a source for opportunities to volunteer with the local zoo, wildlife rehabilitation organizations, jobs within the veterinary school, animal-related therapy organizations, and much more. The requirements to be an “active” member are as follows: attend all meetings during a semester with
a maximum of 2 excused absences, participate in one fundraising activity and one other activity sponsored by the club. A list of members in good standing is shared with the Dean’s office of the veterinary school in support of the veterinary application process.

**Purdue Rodeo Association**

Purdue Rodeo Association is a great way for students interested in rodeo to get involved at school. Purdue is a member of the National Intercollegiate Rodeo Association and students that choose to compete at that level can. The Rodeo Club is an excellent opportunity for students with similar interest in the sport to meet each other and get involved in community service projects. This club is open to all majors.

**Sigma Alpha**

The Sigma Alpha Beta Chapter is a professional and social agriculture based sorority that emphasizes scholarship, leadership and service. The sorority has an objective of maintaining a 2.25 grade point average. It is not required that you live in the house to be in the sorority, but they do own a house that several members reside in. In order to enhance leadership opportunities, it is required by the Beta Chapter for the members to be involved with at least one other campus organization. The Beta Chapter does service projects that influence the School of Agriculture and the community with projects like Rock A Thon, Coffee Hour and Adopt a Highway. They promote professionalism by conducting monthly meetings in professional dress and guest speakers share their professional experience with the chapter. They also strongly promote sisterhood bonds through sisterhood functions and retreats, study breaks, a fall barn dance and formal dances in the winter and spring.
Judging Opportunities in Animal Sciences

**Dairy Judging Team**
The Dairy Judging Team competes in the fall semester with three to four major contests including the national at the World Dairy Expo in Wisconsin. To be a part of the team, one must register for ANSC 47100. The course meets two days a week and field trips are done every Saturday until the national contest. The judging team gives students an opportunity to evaluate dairy cattle in Indiana as well as the Midwest and eastern states. Students develop decision skills and verbal communication. Traveling to the farms and contests allows students to contact people and companies of the dairy industry for future internships or employment opportunities. Evaluating dairy cattle on the judging team is important to students interested in the industry, but is secondary to the personal growth and work skills one can experience.

**Livestock Judging Team**
Participation on the livestock judging team is an opportunity for students to enhance their decision-making and communications skills, broaden their knowledge of animal production and performance records, learn from and meet the industry leaders, and compete with college students from across the country. Judging team members learn to apply scientific principles of animal growth and composition, evaluation, and selection of various species. Livestock judging team members learn to evaluate breeding and market classes of beef cattle, swine, and sheep. Production data and various environmental scenarios will accompany the livestock classes to further advance the working knowledge of the industry and production situations. Livestock judging competitions are held throughout the United States to challenge the students and determine what knowledge and communication skills have been obtained. These competitions consist of classes of animals that contest contestants and official committee members place. Students' placings are compared to the officials' placings and scored based on the cut system. Following the placing portion of the contest, each student presents their oral reasons on the classes to defend their decisions. Those students that are the most convincing and accurate receive the highest scores. Following the competition, an awards ceremony is held to recognize the teams and individuals that excelled in the event.

Some of the contests attended annually include the All-East Contest, the National Barrow Show in Austin, Minnesota, the American Royal in Kansas City, and the North American in Louisville, Kentucky. Contests consist of 12 classes of breeding and market animals and reasons designated classes. ANSC 30100 is a prerequisite for ANSC 37000 (Livestock Evaluation) and ANSC 47000 (Livestock Judging).
Animal Sciences Scholarships and Awards

Animal Sciences Scholarships and Awards to incoming ANSC majors (Fall 2022):
CHARLES L. AND JEAN RUEFF SCHOLARSHIP – $1,000. Delineate potential for leadership in the swine industry. Interest in the swine industry such as previous industry involvement, or post-graduate plans for industry employment. Demonstrate progress in the development of academic skills, leadership, and self-improvement.

THRASHER FAMILY MERIT SCHOLARSHIP – $2,500 Recipient must demonstrate progress in development of academic skills, leadership and self-improvement. If five or more candidates are equally qualified, the award will be given to the recipient demonstrating the greater financial need.

Animal Sciences Scholarships and Awards for current ANSC majors (Fall 2022):
Current Freshmen and Sophomores:

Current Freshmen, Sophomores and Juniors:
ROBERT W. BALTZELL SCHOLARSHIP - $3,000 scholarship for student with a 3.50 GPA and enrolled in a minimum of 12 credit hours. Pre-vet students are not eligible. Sponsor: Robert Baltzell in honor of Drs. Millard Plumlee, Hobart Jones and Martin Stob.

BAUMGARDT FAMILY SCHOLARSHIP – $2,500. Recipient must be an Indiana resident and involved in undergraduate research. Sponsors: Dr. Billy and Elaine Baumgardt.

BOOK-HARMON LEADERSHIP SCHOLARSHIP – $1,000. Recipient must have a minimum GPA of 3.00, possess good communication and leadership skills, and be involved in extracurricular activities. Sponsors: Drs. Robert Book and Bud Harmon.

BLAINE CROWL MEMORIAL SCHOLARSHIP – $1,500. Recipient must be Indiana resident, preference will be given to those with a Dairy interest. GPA ≥ 2.65. Sponsors: John and Judith Cleland.

HOWARD L. DAUGHERTY MEMORIAL SCHOLARSHIP – $2,500. Preference will be given to student who is participating in Study Abroad within the College of Agriculture. Sponsors: Gary and Connie Standiford.

JOHN HENRY HINKLE MEMORIAL SCHOLARSHIP – $3,000 scholarship for student with a GPA of ≥ 3.50 and enrolled in a minimum of 12 credit hours. Recipient must demonstrate academic proficiency in animal science. Preference given to Monroe county residents. Sponsor: Mrs. Joseph N. Garton in memory of her grandfather.

R. L. HOGUE AWARD – $1,000. Recipient must demonstrate leadership interest in and potential for contributing to the poultry industry. Sponsors: Friends of R. L. Hogue.
INDIANA STATE POULTRY ASSOCIATION SCHOLARSHIP – $2,500. Recipient must be in-state and enrolled as a full-time Animal Sciences student with a proven interest in the poultry industry. Sponsor: Indiana State Poultry Association.

EMERSON J. KUHN SCHOLARSHIP – $1,500. Demonstrated commitment to active leadership in high school, local community or Purdue University. Recipient must file FAFSA for Fall 2019. GPA ≥ 2.65. Sponsors: Dr. William E. Kuhn and Joyce M. Kuhn.

MADIA FAMILY SCHOLARSHIP – $1,500. Recipient must be Indiana resident. GPA ≥ 2.65. Sponsors: John and Jean Madia.

CHARLES L. AND JEAN RUEFF SCHOLARSHIP – $1,000. Recipient must show an interest in the swine industry such as previous industry involvement or post-graduate plans for industry employment. Awardee must demonstrate progress in the development of academics, leadership and self-improvement. GPA ≥ 2.70. Sponsors: Dr. Larry and Gail Rueff.

THRASHER FAMILY SCHOLARSHIP – $2,500. Recipient must demonstrate progress in the development of academic skills, leadership and self-improvement. GPA ≥ 2.70. Sponsors: The George Thrasher family.

Current Sophomores Only:

THE ERIC B. AND FRAN LUCKMAN AWARD – $2,500. Indicate potential for leadership in the animal agriculture industry. Articulate plans to work in the animal agriculture industry or for post-graduate education that will ultimately impact the industry. Demonstrate progress in the development of academic skills, leadership, and self-improvement. GPA ≥ 2.70.

HENRY MAYO SCHOLARSHIP - $1,500. Recipient must indicate an interest in animal food products and animal agriculture. Must demonstrate extracurricular leadership and citizenship activities. GPA ≥ 2.70. Sponsors: Henry A. Mayo and friends.

Current Sophomores and Juniors:

BRATTON-WEBSTER MEMORIAL SCHOLARSHIP – $1,000. Recipients must be involved in undergraduate research in biology/biotechnology of food-processing animals. GPA ≥ 2.70. Sponsor: In memory of Robert Logan Bratton and Sarah Hannah Davis Bratton.

FRANK AND WINI CLARK BEEF INDUSTRY SCHOLARSHIP – $1,000. Recipient must demonstrate leadership and an interest in the beef industry. GPA ≥ 2.70. Sponsor: Wini Clark.

OWEN AND FRAN CRISMAN FAMILY SCHOLARSHIP – $2,000. Recipient must have GPA ≥ 3.00. Sponsors: Crisman family in honor of Dr. Martin Stob.

PAUL E. NEWMAN SCHOLAR AWARD - $1,500. Recipient must present evidence of leadership, extracurricular activities, character and potential future community leadership and service. Awardee must also illustrate an interest in topics outside their chosen field. Recipient must file FAFSA form for Fall 2019. GPA ≥ 2.70. Sponsor: Paul E. Newman.
Current Juniors and Seniors graduating in Fall 2022:

RICHARD A. PICKETT MEMORIAL AWARD - $3,000. Recipient must demonstrate academic excellence, leadership, citizenship and extracurricular activities with an interest in animal agriculture. GPA ≥ 2.70. Sponsors: Friends of Dr. Richard A. Pickett.

ROTHENBERGER LEADERSHIP AWARD – $3,500. Recipient must demonstrate potential for outstanding leadership and citizenship in the swine industry. GPA ≥ 2.70. Sponsor: Erland Rothenberger.

All Current Students:

DEKRYGER FAMILY SCHOLARSHIP - $1,500. Recipient must be an Indiana resident. Sponsors: Malcom and Donna DeKryger.

PAUL AND LINDA BRENNAN SCHOLARSHIP IN ANIMAL SCIENCES - $1,500. Recipient must be an Indiana resident and a full-time student in Animal Sciences. Sponsors: Paul and Linda Brennan.


OUTSTANDING FRESHMAN, SOPHOMORE, JUNIOR AND SENIOR AWARDS - $3,000 each. One student in each class is selected on academics (60%) and leadership (40%) and nominated for College of Agriculture awards. Students with GPA ≥ 3.25 will receive instructions in late January for application procedures.

To be eligible for any award or scholarship, a student must be enrolled for at least 12 credits as an undergraduate Animal Sciences major on the West Lafayette campus of Purdue University for the Fall 2022 semester. For other financial aid information, contact the Division of Financial Aid at 765-494-5050. For more information about Animal Sciences scholarships, contact Ashley York at 765-494-4843 or ashleyyork@purdue.edu