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 academice 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 also 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 has 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

Course	**Credit Hours**	**Grade**	**Credit Hours** x **Grade Weight =**	**Quality Points**
AGR 10100	0.5	B	0.5 x 3.0	1.5
AGR 11400	0.5	A+	0.5 x 4.0	2.0
ANSC 24500	2	A-	2 x 3.7	7.4
ANSC 10200	3	C+	3 x 2.3	6.9
BIOL 11000	4	D	4 x 1.0	4.0
CHM 11500	4	B+	4 x 3.3	13.2
MA 16010	3	F	3 x 0.0	0.0
ANSC 293 (P/NP) †	*2*	*P*	*Not included*	*Not included*
Total:	**19 Credit Hours**			**35.0**
	17 GPA Hours			

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 determiniation 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 semeser. 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 Pudue 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.

Total Credits Earned	Semester Classification	Status
14 or less	1	First-Year
15 to 29	2	
30 to 44	3	Sophomore
45 to 59	4	
60 to 74	5	Junior
75 to 89	6	
90 to 104	7	Senior
105 or more	8	

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/not-pass 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.

Name & Position	Office	Telephone (765)	E-mail	Specialty
Layi Adeola Professor	CRTN 3056	494-4848	ladeola@purdue.edu	Nutrition, Swine
Kolapo Ajuwon Professor	**CRTN 2010**	**494-4822**	**kajuwon@purdue.edu**	**Adipose & Metabolic Biol.**
Rodney Allrich Associate Professor	**CRTN 3070**	**494-4844**	**rallrich@purdue.edu**	**Reproductive Physiology, Dairy**
John Blanton, Jr. Professor, Head	CRTN 1014	494-4806	blantonj@purdue.edu	
Jacquelyn Boerman Assistant Professor	CRTN 3020	496-6290	jboerma@purdue.edu	Dairy Extension
Jackie Boudreaux	**CRTN 1058B**	**496-7769**	**jboudreaux@purdue.edu**	**Senior Academic Advisor**
Colleen Brady Courtesy Appointment	Lilly 3-233	494-1152	bradyc@purdue.edu	4-H Extension
Luiz Brito Associate Professor	CRTN 2016	494-9346	britol@purdue.edu	Breeding and Genetics
Ryan Cabot Professor	CRTN 2060	494-1746	rcabot@purdue.edu	Molecular Genetics/Reprod. Biology
Heng-wei Cheng Adjunct Assoc. Prof.	CRTN 3012	494-48022	hwcheng@purdue.edu	USDA Livestock Behavioral Research
Candace Croney Associate Professor	VPTH 132A	496-6665	ccroney@purdue.edu	Behavior/Well-Being
Barry Delks Career Coordinator	CRTN 1058D	496-7234	delks@purdue.edu	Career Services
Paul Ebner Professor	**CRTN 1070**	**494-4820**	**pebner@purdue.edu**	**Microbiology, Pre-harvest Food Safety**
Marisa Erasmus Associate Professor	**CRTN 3036**	**496-3886**	**merasmus@purdue.edu**	**Animal Behavior and Well-Being**
Marcos Fernandez Professor	CRTN 2012	494-8016	mfernandez@purdue.edu	Student Outreach and Development
Greg Fraley Associate Professor	CRTN 2026	496-2725	gfraley@purdue.edu	Poulty Neuroendocrinology and Welfare
Dale Forsyth Associate Professor	**CRTN 2028**	**494-4841**	**dforsyth@purdue.edu**	**Nonruminant Nutrition, Swine**

Darrin Karcher Associate Professor	CRTN 3042	494-4845	dkarcher@purdue.edu	Poultry Extension
Elizabeth Karcher Associate Professor	**CRTN 3022**	**494-4829**	**ekarcher@purdue.edu**	**Scholarship of Teaching & Learning Programs Coordinator**
Yuan (Brad) Kim Associate Professor	CRTN 2056	496-1631	bradkim@purdue.edu	Muscle Biology and Meat Science
Shihuan Kuang Professor	CRTN 2070	494-8283	skuang@purdue.edu	Muscle Biology
Jay Johnson Asst. Adjunct Professor	CRTN 3016	496-7946	jay.johnson@ars.usda.gov	USDA-ARS-Animal Well-being
Tim Johnson Assistant Professor	CRTN 2020	494-8019	john2185@purdue.edu	Microbiologist
James Krotz	**CRTN 1058C**	**496-0320**	**jkrotz@purdue.edu**	**Senior Academic Advisor**
Donald Lay, Jr. Asst. Adjunct Professor	CRTN 3010	496-7750	layd@purdue.edu	USDA-ARS Animal Well-being
Ronald Lemenager Professor	**CRTN 3030**	**494-4817**	**rpl@purdue.edu**	**Ruminant Nutrition and Management, Beef**
Donna Lofgren Professional Associate	CRTN 3040	494-6439	dlofgren@purdue.edu	Animal Breeding
Zoltan Machaty Professor Graduate Chair	**CRTN 2058**	**498-8008**	**zmachaty@purdue.edu**	**Transgenic Biology**
Jeremy Marchant-Forde Asst. Adjunct Professor	CRTN 3014	494-6358	merchant@purdue.edu	USDA-ARS-LBRU
James Markworth Assistant Professor	CRTN 2054	494-4846	jmarkwor@purdue.edu	Muscle Biology
Alan Mathew Professor	CRTN 1014B	494-4806	agmathew@purdue.edu	Intestinal Microbiology, Pre-Harvest Food Safety
Michael Neary Extension Specialist	CRTN 2018	494-4849	mneary@purdue.edu	Ruminant Nutrition, Sheep
Alex Pasternak Assistant Professor	CRTN 2024	496-1997	jpastern@purdue.edu	Reproductive Physiology,

Karen Plaut Dean	AGAD 126	494-8362	kplaut@purdue.edu	Mammary Gland Biology
J. Scott Radcliffe Professor Assistant Head	**CRTN 3054**	**496-7718**	**jradclif@purdue.edu**	**Swine Nutrition**
Brian Richert Associate Professor	**CRTN 3044**	**494-4837**	**brichert@purdue.edu**	**Swine Nutrition and Management**
Anna Ripke	**CRTN 1058E**	**496-0964**	aripke@purdue.edu	**Academic Advisor**
Allan Schinckel Professor	CRTN 3038	494-4836	aschinck@purdue.edu	Breeding and Genetics, Swine
Jon Schoonmaker Associate Professor	**CRTN 3058**	**494-4860**	**jschoonm@purdue.edu**	**Ruminant Nutrition, Beef**
Kara Stewart Associate Professor	**CRTN 3046**	**496-6199**	**krstewart@purdue.edu**	**Reproductive Physiology**
Ashley York	**CRTN 1058A**	**494-4843**	**ashleyyork@purdue.edu**	**Coordinator of Academic Advising & Student Services**
Stacy Zuelly Assistant Professor	CRTN 1072	494-3276	szuelly@purdue.edu	Meat Science

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)

	University Common Core	Credits
Mathematics & Science		
Biological Sciences	Science	8
General Chemistry	Science	6
Calculus	Quantitative Reasoning	3
Statistics	Information Literacy	3
Additional Mathematics and/or Sciences		3-5*
		23-25*
Science, Technology, & Society	Science, Technology, & Society	**1-3***
Written and Oral Communications		
Written Communication	Written Communications	3-4
Oral Communications	Oral Communications	3
Additional Written/Oral Com.		3
		9
Social Sciences & Humanities		
Economics	Behavioral/SS	3
University Core Humanities	Humanities	3
Other Hum/SS		6
Humanities or SS (30000+ Level)		3
		15
AG Core Requirements		**51**
Departmental Requirements		**69**
	Total	**120****

*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

College of Agriculture (CoA) Core Requirements	Credits	UCC Outcome	Course Acronym and Number or Selective
College of Agriculture Orientation	1		AGR 10100 and AGR 11400
Biological Sciences	8	Science	BIOL 11000 and BIOL 11100
Calculus	3	Quantitative Reasoning	MATH 16010
General Chemistry	6	Science	CHM 11100 and CHM 11200 or CHM 11500 and CHM 11600
Statistics/ Information Literacy	3	Information Literacy	STAT 30100
Science, Technology, and Society	1-3*	Science, Technology and Society	ANSC 10200 *or* UCC Selective
Additional Mathematics and/or Sciences	3-5*		ANSC 22100
First- Year Composition	3-4	Written Communication	ENGL 10600, ENGL 10800, HONR 19903, or SCLA 10100
Fundamentals of Speech Communication	3	Oral Communication	COM 11400, COM 21700, EDPS 31500, or SCLA 10200
Additional Written or Oral Communication	3		CoA Selective
Economics	3	Human Cultures: Behavioral/Social Sciences	CoA Selective
University Core Humanities	3	Human Cultures: Humanities	UCC Selective
Other Social Sciences or Humanities	6		CoA Selective
Humanities or Social Sciences 30000+Level	3		CoA Selective

* These two categories must total (6) credits.

Embedded Outcomes	Course(s) Acronym and Number or Selective
Creative Thinking	**ANSC Nutrition Selective**
Critical Thinking	**ANSC Physiology Selective**
Ethical Reasoning	**ANSC Products Selective**
Global Citizenship and Awareness	CoA Multicultural Awareness and International Understanding
Intercultural Knowledge	CoA Multicultural Awareness and International Understanding
Leadership and Teamwork	**ANSC Production/Management Selective**
Quantitative Reasoning	**ANSC 22100 Principles of Animal Nutrition**
Integrative Knowledge	**ANSC Production/Management selective**
Written Communication (Levels 2)	**ANSC Genetics Selective**
Information Literacy (Levels 2)	**ANSC 23000** (Domestic Animal Physiology)
Oral Communication (Level 2)	**ANSC 48100** (Contemporary Issues in Animal Science)

Indiana Statewide Transfer General Education Core

Outcome	Course	Credit hours
Human Cultures-Humanities	UCC selective	3
Human Cultures-Social Sciences	CoA Economics selective	3
Information Literacy	STAT 30100	6
Science Selective	CHM 11100 and CHM 11200	6
Science Selective	BIOL 11000	4
Science, Technology and Society	ANSC 10200 or UCC selective	3
Written Communication	ENGL 10600	4
Oral Communication	COM 11400	3
Quantitative Reasoning	MATH 16010	3
Total		**32**

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. https://ag.purdue.edu/department/oap/corereqpages/international-understanding.html.

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 be meet this requirement can be found at https://ag.purdue.edu/department/oap/corereqpages/muticultural-awareness.html.

Animal Sciences Capstone Experience

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

A) **ANSC 48100 Contemporary Issues in Animal Sciences**. Sem. 1. Lec. 1, Cr. 1.
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.

Major: Animal Sciences (ASCI)
Concentration: Animal Agribusiness (ANAG)[1]

Fall 2022

Name: _____

Date:_____ Advisor: _____

(.5) AGR 10100 – Ag Orientation[2] _____

(.5) AGR 11400 – ANSC Orientation[2] _____

(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*[3]

Economics Selective

AGEC 21700 (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.

(27) Math & Basic Sciences

BIOL 11000	(4)	_____
BIOL 11100	(4)	_____
CHM 11100	(3)	_____
CHM 11200[4]	(3)	_____
CHM 25700	(4)	_____
MA 16010	(3)	_____
ANSC 22100	(3)	_____
STAT 30100[5]	(3)	_____

(3) Sci., Tech., Society Selective[2]

ANSC 10200 (3) _____

Multicultural Awareness Requirement[9]

_____ (0) _____

_____

(56) Departmental Requirements

ECON/MGMT[6] [24]

AGEC 20201	(3)	_____
AGEC 20300	(3)	_____
AGEC 33000	(3)	_____
MGMT 20000 or 21200	(3)	_____
_____	( )	_____
_____	( )	_____
_____	( )	_____
_____	( )	_____

ANSC Courses Required [24]

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

ANSC Restricted Selectives[7] [10]

Select 10 credits from a minimum of 3 of the following course groupings:

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

(7) Free Electives[8]

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

International Understanding Requirement[10]

_____ (0) _____

_____ (0) _____

_____ (0) _____

Capstone Experience[11]

_____ (0) _____

[1]Thirty-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)
   (3) ECON 25100 (Microeconomics)
   (3) ECON 25200 (Macroeconomics)

   *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)
   Band (Limited to 3 credits)
   Classics
   Educational Leadership and Cultural Foundations (Limited to EDST 20000)
   English Literature**
   Foreign Languages and Literature***
   History
   Honors 19900 (Science and Pseudoscience)
   Honors 29900 (Insects in Literature and Art)
   Interdisciplinary Studies
   Philosophy
   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****
   Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100)
   Agronomy (Limited to AGRY 39900 – Afghanistan)
   Anthropology
   Economics
   Political Science
   Psychological Sciences
   Psyco-educational Studies (Limited to EDPS 23500 and 26500)
   Sociology

   ****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 201200 (but not both). Twelve (12) additional credits must be completed from the following courses: ≥ MGMT 20100 (excluding MGMT 21200); ≥ ECON 21900; AGEC 22000 or AGEC ≥ 30500. Highly Recommended: AGEC 33100.
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/Wellbeing**
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 52400 (3)	ANSC 55500 (3)	ANSC 51400 (3)		ANSC 36000 (3)	
ANSC 52200 (3)		BIOL 41500 (3)		ANSC 55200 (3)	

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).

Animal Science: Animal Agribusiness

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		2	ANSC 12100 Ethics of Animal Use	
0.5	AGR 11400 Introduction to Animal Sciences Academic Programs		1	ANSC 18100 Orientation to Animal Sciences	
3	ANSC 10200 Introduction to Animal Agriculture		4	BIOL 11100 Fundamentals of Biology II[vv]	BIOL 11000
4	BIOL 11000 Fundamentals of Biology I[vv]		3	CHM 11200 General Chemistry[vv]	CHM 11100
3	CHM 11100 General Chemistry[vv]		3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills	
3-4	ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing		3	MA 16010 Applied Calculus I	ALEKS 75+
14-15			**16**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
1	AGEC 20200 Spreadsheet use in Ag Business		3	ANSC 24000 Principles of Animal Production	
3	Economics Selective		3	STAT 301000	
3	ANSC 25500 Priciples of Animal Products		4	ANSC 23000 Principles of Animal Anatomoy/ Physiology	BIOL 11100
3	ANSC 22100[cc] Principles of Animal Nutrition	CHM 11100	4	CHM 25700 Organic Chemistry	CHM 11200
3	UCC Humanities Selective		3	AGEC 20300 Introductory Microeconomics for Food	
3	Written or Oral Communication Selective (20000+)				
16			**17**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MGMT 20000 Introductory Accounting or MGMT 201200 Business Accounting		3	Agricultural Economics, Economics, or Management Selective	
3	Agricultural Economics, Economics, or Management Selective		4	ANSC 31100 Animal Breeding and Genetics	Biol 11100 STAT 30100
3	AGEC 33000 Management Methods For Ag. Business		2-3	ANSC Restricted Selectives	
3	ANSC 333 Reproductive Physiology	ANSC 23000	2-3	Elective	
3	Humanities or Social Science Selective		3	Humanities or Social Science Selective	
15			**14-16**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ANSC 48100 Contemporary Issues in Animal Sciences		4-6	ANSC Restricted Selective	
2-3	ANSC Restricted Selective		3	Agricultural Economics, Economics, or Management Selective	
3	Animal Management Course		5-6	Electives	
3	Humanities or Social Science Selective (30000+ level)		3	Agricultural Economics, Economics, or Management Selective	
3-4	Elective				
13-14			**15-17**		

****

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

Fall 2022

Name: _____

Date:_____ Advisor:_____

(.5) AGR 10100 – Ag Orientation[2] _____

(.5) AGR 11400 – ANSC Orientation[2] _____

(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 written communication course)*

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

(15) Social Sciences and Humanities*[3]

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.

(27) Mathematics and Sciences

BIOL 11000	(4)	_____
BIOL 11100	(4)	_____
CHM 11100	(3)	_____
CHM 11200[4]	(3)	_____
MA 15800 or MA 16010	(3)	_____
ANSC 22100	(3)	_____
STAT 30100[5]	(3)	_____
CHM 25700	(4)	_____

(3) Sci., Tech., Society Selective[2]

ANSC 10200 (3) _____

Multicultural Awareness Requirement[13]

_____ (0) _____

[1]Thirty-two credits musy be 30000+ level at Purdue or regional campuses. See reverse for additional details.

(56) Departmental Requirements

Animal Products Elective[6] (3)

_____ _____

Financial Mgmt Elective[7] (3)

_____ _____

Enterprise Mgmt Electives[8] (6)

_____ _____

_____ _____

Production/Mgmt Electives[9] (3)

_____ _____

BCHM 30700 (3) _____

BIOL 22100 (4) _____

ANSC Courses Required [24]

ANSC 18100[2] (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 Animals Use)

ANSC 33300 (3) _____
(Reproductive Physiology)

ANSC 44000-44600 (3) _____
(Management course)

ANSC 48100 (1)_____

ANSC Restricted Selectives[10] [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) _____

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

   *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)
   (3) ECON 21000 (Principles of Economics)
   (3) ECON 25100 (Microeconomics)
   (3) ECON 25200 (Macroeconomics)

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

   Humanities

   Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE History 33100)
   Band (Limited to 3 credits)
   Classics
   Educational Leadership and Cultural Foundations (Limited to EDST 20000)
   English Literature**
   Foreign Languages and Literature***
   Honors 19900 (Science and Pseudoscience)
   Honors 29900 (Insects in Literature and Art)
   Interdisciplinary Studies
   Philosophy
   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****
   Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100)
   Agronomy (Limited to AGRY 39900 – Afghanistan) Anthropology
   Economics
   Forestry & Natural Resources (Limited to FNR 37500)
   Political Science
   Psychological Sciences Psyco-educational Studies (Limited to EDPS 23500 and 26500)
   Sociology

   ****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. Animal Products Selective. One of the following courses must be completed: ANSC 30100, ANSC 35100, ANSC 35101, ANSC 4XX (new course; Muscle Food Production & Safety)
7. Financial Management Selective. One of the following 3-credit courses must be completed: AGEC 33000, CSR 34200, MGMT 20000 or MGMT 21200.
8. Enterprise Management Selectives. A minimum of 6 credits from the following courses must be completed:

AGEC 20300 (3)	AGEC 32100 (3)	AGEC 33300 (3)	AGEC 42100 (3)	AGEC 43000 (3)
AGEC 22000 (3)	AGEC 32700 (3)	AGEC 41100 (4)	AGEC 42400 (4)	AGEC/MGMT 45500 (3)
AGEC 30500 (3)	AGEC 33000 (3)	AGEC 41200 (1-3)	AGEC 42500 (2)	
AGEC 31000 (3)	AGEC 33100 (3)	AGEC 41400 (2)	AGEC 42700 (3)	

   Highly Recommended: AGEC 22000, 32100, & 42100
9. Production/Management Selectives (Non-ANSC). A minimum of 3 credits from the following courses must be completed:

Agricultural Systems	**Agronomy**	**Botany & Plant Pathology**	**Entomology**	**Organizational Leadership Courses**
ASM 20100 (3)	AGRY 25500/NRES 25000 (3)	BTNY 30400 (3)	ENTM 20600 (2)	TLI 11200 (3) Foundations of Organizational Leadership
ASM 22200 (3)	AGRY 36500 (3)		ENTM 20700 (1)	TLI 15200 (3) Business Principles for Organizational Leadership
ASM 24500 (3)	AGRY 37500 (3)			
ASM 33300 (3)	AGRY 50500 (3)			
ASM 33600 (3)				
ASM 42000 (3)				
ASM 50700 (3)				

10. 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/Wellbeing**
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 (2)	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 52400 (3)	ANSC 55500 (3)	ANSC 51400 (3)		ANSC 36000 (3)	
ANSC 52200 (3)		BIOL 41500 (3)		ANSC 55200 (3)	

11. Recommended: ANSC 49100/ANSC 49300. Both ANSC 10200 and 10600 can be used as an ANSC selective. Combination of 37000, 37100, 37200, 47000, 47100 and 47200 cannot exceed 3 credits towards ANSC selectives.
12. If a student has an interest in food product business, the following courses are highly recommended: AGEC 22000, AGEC 32100, AGEC 33100, AGEC 33300, AGEC 42100 and MGMT 20000.
13. Multicultural Awareness Requirement: This requirement may be met by taking an appropriate course from the multicultural awareness selective list.
14. 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.
15. Capstone experience: ANSC 48100 plus one course from production/management block (ANSC 44000-44600).

Animal Science: Animal Production & Industry

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		2	ANSC 12100 Ethics of Animal Use	
0.5	AGR 11400 Introduction to Animal Sciences Academic Programs		1	ANSC 18100 Orientation to Animal Sciences	
3	ANSC 10200 Introduction to Animal Agriculture		4	BIOL 11100[cc] Fundamentals of Biology II	BIOL 11000
4	BIOL 11000[cc] Fundamentals of Biology I		3	CHM 11200[cc] General Chemistry	CHM 11100
3	CHM 11100[cc] General Chemistry		3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills	
3-4	ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing		3	MA 15800 or MA 16010 Applied Calculus I ALEKS 75+	
14-15			**16**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	ANSC 24000 Principles of Animal Production		3	Enterprise Management Selective	
3	Economics Selective		3	Finacial Management Selective	
3	ANSC 22100[cc] Principles of Animal Nutrition	CHM 11100	3	ANSC 25500 Principles of Animal Products	
4	ANSC 23000 Principles of Anatmony and Physiology	BIOL 11000	4	CHM 25700 Organic Chemistry	CHM 11200
3	Written or Oral Communication Selective		3	STAT 30100 Elementary Statistical Methods	
16			**16**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BCHM 30700 Biochemistry	CHM 25700	3	Production Management Selective	
3	UCC Humanities Selective		4	ANSC 31100 Animal Breeding and Genetics	BIOL 11100 and STAT 30100
3	ANSC 33300 Reproductive Physiology	ANSC 23000	2-3	ANSC Restricted Selective	
2-3	ANSC Restricted Selective		2-3	ANSC Restricted Selective	
3	Humanities or Social Science Selective		3	Humanities or Social Science Selective	
14-15			**14-16**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ANSC 48100 Contemporary Issues in Animal Sciences		2-3	Animal Restricted Selective	
2-3	ANSC Restricted Selective		3	Enterprise Management Selective	
3	Animal Production Management Course		9	Electives	
3	Humanities or Social Science Selective (30000+ level)				
4	BIOL 22100 Microbiology	BIOL 11000			
13-14			**14-15**		

****

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) [1]

Fall 2022

Name: _____

Date:_____ Advisor: _____

(.5) AGR 10100 – Ag Orientation[2] _____

(.5) AGR 11400 – ANSC Orientation[2] _____

(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*[3]

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 11100 (3) _____
CHM 11600 (4) ____ or CHM 11200 (3) _____
CHM 11600[4] (4) _____

MA 16010 (3) _____

ANSC 22100 (3) _____

CHM 25700 (4) _____

STAT 30100[5] (3) _____

(3) Sci., Tech., Society Selective[2]

ANSC 10200 (3) _____

Multicultural Awareness Requirement[9]

_____ (0) _____

(52) Departmental Requirements

BCHM 30700 (3) _____

Behavior/Well-being Selectives[6] [15]

PSY 12000 (3) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

ANSC Courses Required [24]

ANSC 18100[2] (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[7] [10]

Select 10 credits from a minimum of 3 of the following course groupings:

Behavior/Well-being (required)

ANSC 30300 **(3)** _____

ANSC 40400 **(3)** _____

Nutritition _____

Reproduction _____

Physiology _____

Genetics _____

Products _____

(12-13) Free Electives[8]

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

International Understanding Requirement[10]

_____ (0) _____

_____ (0) _____

_____ (0) _____

Capstone Experience[11]

_____ (0) _____

[1]Thirty-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 feed lot manager, flock supervisor, orswine manager). Limited career opportunities may be available as an animal trainer, zoo environment enhancement specialist, companion animal consultants, breed association animal well-being specialist, and pet safety education specialist for a humane society. Those students 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 ≥ 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 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 30000+ level and a minimum of 9 credits must be outside the College of Ag.

*Economics - 3 Credits**

(3) AGEC 20300 (Intro Microeconomics for Food and Agribusiness)
(3) AGEC 20400 (Intro to Resource Economics and Environmental Policy)(3)
AGEC 21700 (Economics)
(3) ECON 21000 (Principles of Economics) (3)
ECON 25100 (Microeconomics)
(3) ECON 25200 (Macroeconomics)

*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)
Band (Limited to 3 credits)
Classics
Educational Leadership and Cultural Foundations (Limited to EDST 20000)
English Literature**
Foreign Languages and Literature***
History
Honors 19900 (Science and Pseudoscience)
Honors 29900 (Insects in Literature and Art)
Interdisciplinary Studies
Philosophy (highly recommended PHIL 11100) 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****
Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100) Agronomy (Limited to AGRY 39900 – Afghanistan)
Anthropology
Economics
Forestry & Natural Resources (Limited to FNR 37500)
Political Science
Psychological Sciences
Psyco-educational Studies (Limited to EDPS 23500 and 26500) Sociology

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

ANTH 23500 (3) The Great Apes
ANTH 33500 (3) Primate Behavior
ANTH 53500 (3) Foundations of Biological Anthropology
ANTH 53600 (3) Primate Ecology
BIOL 58705 (3) Animal Communication
BIOL 59200 (3) Evolution of Behavior
CPB 48000 (3) Seminar in Animal Welfare and Human-Animal Interaction
CPB 48000 (3) Special Topics in Animal Welfare and Human-Animal Interaction
PHIL 27000 (3) Biomedical Ethics
PHIL 28000 (3) Ethics and Animals
PHIL 29000 (3) Environmental Ethics
PSY 20000 (3) Introduction to Cognitive Psychology
PSY 22200 (3) Introduction to Behavioral Neuroscience

7. Animal Science Restricted Selectives. A minimum of 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)-REQUIRED
ANSC 32600 (2)	ANSC 41500 (3)	AGRY 32100 (1)	ANSC 42600 (2)	ANSC 35100 (3)	ANSC 40400 (3)-REQUIRED
ANSC 32400 (3)	ANSC 55100 (3)	ANSC 51300 (3)	ANSC 53500 (3)	ANSC 35101 (1)	
ANSC 52400 (3)	ANSC 55500 (3)	ANSC 51400 (3)		ANSC 36000 (3)	
ANSC 52200 (3)		BIOL 41500 (3)		ANSC 55200 (3)	

8. Recommended: ANSC 49100/ANSC 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.
11. Capstone experience: ANSC 48100 plus one course from production/management block (ANSC 44000-44600).

Animal Sciences: Behavior/Well Being

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		1	ANSC 18100 Orientation to Animal Sciences	
0.5	AGR 11400 Introduction to Animal Sciences Academic Programs		4	BIOL 11100 Fundamentals of Biology II (cc)	BIOL 11000
3	ANSC 10200 Introduction to Animal Agriculture		4	CHM 11600 General Chemistry (cc)	CHM 11500
4	BIOL 11000 Fundamentals of Biology I (cc)		3-4	ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing	
4	CHM 11500 General Chemistry (cc)		2	ANSC 12100 Ethics of Animal Use	
3	MA 16010 Applied Calculus I	ALEKS 75+			
15			**14-15**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	ANSC 22100cc Principles of Animal Nutrition	CHM 11100	3	STAT 30100 Elementary Statistical Methods	
4	CHM 25700 Organic Chemistry	CHM 11600	3	Economics Selective	
3	Psy 12000 Elementary psychology		4	ANSC 23000 Principles of Anatomy/ Physiology	BIOL 11000
3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation or EDPS 31500 Collaborative Leadership: Interpersonal Skills		3	ANSC 25500 Principles of Animal Products	
3	ANSC 24000 Principles of Animal Production		3	UCC Humanities Selective	
16			**16**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	ANSC 30300 Animal Behavior		3	ANSC 40400 Animal Welfare	
3	BCHM 30700 Biochemistry	CHM 25700	2-3	ANSC Restricted Selective	
4	ANSC 31100 Animal Breeding and Genetics	BIOL 11100 & STAT 30100	3	Behavior/Well-being Selective	
3	ANSC 33300 Physiology of Repro	ANSC 23000	3	Humanities or Social Science Selective	
3	Written or Oral Communication Selective (20000+)		3	Elective	
15			**14-15**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ANSC 48100 Contemporary Issues in Animal Sciences		3	Behavior/Well-being Selective	
3	Animal Management Selective		3	Humanities or Social Science Selective (30000+ level)	
2-3	Animal Sciences Selective		3	Animal Behavior Selective	
3	Humanities or Social Science Selective		6-7	Electives	
3	Behavior/Well-being Selective				
3	Elective				
16			**14-15**		

****

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) [1]

Fall 2022

Name:_____

Date:_____ Advisor: _____

(.5) AGR 10100 – Ag Orientation[2] _____

(.5) AGR 11400 – ANSC Orientation[2] _____

(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*[3]

Economics Selective (3)

_____ _____

Humanities Selective (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 11100 (3) _____
- CHM 11200 (3) _____
- CHM 11600[4] (4) _____

MA 16010 (3) _____

ANSC 22100 (3) _____

CHM 25700 (4) _____

STAT 30100[5] (3) _____

(3) Sci., Tech., Society Selective[2]

ANSC 10200 (3) _____

Multicultural Awareness Requirement[9]

_____ (0) _____

(50) Departmental Requirements

BCHM 30700 (3) _____

BCHM 30900 (1) _____

Science Selectives[6] [12]

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

ANSC Courses Required [24]

ANSC 18100[2] (1) _____

ANSC 23000 (4) _____
(Principles of Anatomy/Physiology)

ANSC 25500 (3) _____
(Principles of 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[7] [10]

Select 10 credits from a minimum of 3 of the following course groupings:

Nutrition ( ) _____

Reproduction ( ) _____

Physiology ( ) _____

Genetics ( ) _____

Products ( ) _____

Behavior/Well-being ( ) _____

(13-14) Free Electives[8]

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

International Understanding Requirement[10]

_____ (0) _____

_____ (0) _____

_____ (0) _____

Capstone Experience[11]

_____ (0) _____

[1]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 ≥ 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 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 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 and Environ Policy)
   (3) AGEC 21700 (Economics)
   (3) ECON 21000 (Principles of Economics)
   (3) ECON 25100 (Microeconomics)
   (3) ECON 25200 (Macroeconomics)

   *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)
   Band (Limited to 3 credits)
   Classics
   Educational Leadership and Cultural Foundations (Limited to EDST 20000)
   English Literature**
   Foreign Languages and Literature***
   History
   Honors 19900(Science and Pseudoscience)
   Honors 29900 (Insects in Literature and Art)
   Interdisciplinary Studies
   Philosophy
   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****
   Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100)
   Anthropology
   Agronomy
   Anthropology
   Economics
   Forestry & Natural Resources (Limited to FNR 37500)
   Political Science
   Psychological Sciences
   Psyco-educational Studies (Limited to EDPS 23500 and 26500)
   Sociology

   ****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. Science Selectives. Twelve (12) credits are required. Maximum of six credits of ANSC 49100 and ANSC 50000+.

ANSC 49100	CS ≥ 14500	IT 22600, 22700	STAT > 50000 (*STAT 50100 can't be used if STAT 30100 has been taken)
ANSC 50000+	ENTM 52500	IT 34200	CHM 22400 or CHM 29000, CHM ≥ 32100, but not CHM 50000, 50200 or
BCHM 22100	FS 34100	MA ≥ 26100	51300. Credit for both CHM 33300 and BCHM 30700 cannot be granted.
BCHM ≥ 32200	FS 36200	PHIL 42100	Physics other than PHYS 14900, 16000, 21400, 21800 or 27000
BIOL ≥ 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 52400 (3)	ANSC 55500 (3)	ANSC 51400 (3)		ANSC 36000 (3)	
ANSC 52200 (3)		BIOL 41500 (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.
11. Capstone experience: ANSC 48100 plus one course from production/management block (ANSC 44000-44600).

Animal Sciences: Biosciences

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		1	ANSC 18100 Orientation to Animal Sciences	
0.5	AGR 11400 Introduction to Animal Sciences Academic Programs		4	BIOL 11100cc Fundamentals of Biology II	BIOL 11000
3	ANSC 10200 Introduction to Animal Agriculture		4	CHM 11600cc General Chemistry	CHM 11500
4	BIOL 11000cc Fundamentals of Biology I		3-4	ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing	
4	CHM 11500cc General Chemistry		2	ANSC 12100 Ethics of Animal Use	
3	MA 16010 Applied Calculus I	ALEKS 75+			
15			**14-15**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	ANSC 22100cc Principles of Animal Nutrition	CHM 11100	4	ANSC 23000 Priciples of Anatomy/Physiology	BIOL 11000
4	CHM 25700 Survey of Organic Chemistry	CHM 11600	3	Science Selective	
3	UCC Written Communication Selective		3	ANSC 25500 Principles of Animal Products	
3	Economics Selective		3	UCC Oral Communication Selective	
3	ANSC 24000 Principles of Animal Production		3	UCC Humanities Selective	
16			**16**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	ANSC 333 Reproductive Physiology	ANSC 23000	3	ANSC 31100 Animal Breeding and Genetics	BIOL 11100 STAT 30100
3	STAT 30100 Elementary Statistical Methods		2-3	Animal Nutrition Selective	ANSC 22100
3	Humanities or Social Sciences Selective		3	Humanities or Social Science Selective	
3	Science Selective		3	Science Selective	
3	BCHM 30700 Biochemistry	CHM 25700	2-3	ANSC Restricted Selective	
1	CHM 30900 Biochemistry Lab Chemistry Laboratory		1		
16			**14-16**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ANSC 48100 Contemporary Issues in Animal Sciences		2-3	ANSC Restricted Selective	
3	Animal Production/Management Selective	ANSC 22100 and ANSC 23000	6	Sciences Selectives	
3	Humanities or Social Science Selective (30000+ level)		7-8	Electives	
2-3	ANSC Restricted selective				
3	Written or Oral Communication Selective (20000+)				
3	Elective				
15-16			**15-17**		

****

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: Pre-Veterinary Medicine (PRMD)[1]

Fall 2022

Name:_____

Date:_____ Advisor:_____

(.5) AGR 10100 – Ag Orientation[2]✶ _____

(.5) AGR 11400 – ANSC Orientation[2]✶ _____

(9) Written and Oral Communication

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

(or any UCC approved written communication course)

COM 11400/21700, 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.

(27-28) Mathematics & Sciences

BIOL 11000 **(4)** _____
BIOL 11100 **(4)** _____
CHM 11500 (4) ____ **CHM 11100 (3)** _____
CHM 11600 (4) ____ or **CHM 11200 (3)** _____
CHM 11600[4] (4) _____
MA 16010✶ (3) _____
ANSC 22100✶ (3) _____
BIOL 23100✶ (3) _____
STAT 30100[5] **(3)** _____

(3) Sci., Tech., Society Selective

ANSC 10200✶ (3) _____

Multicultural Awareness Requirement[9]✶

_____ (0) _____

✶Course requirements for 3+1 Program, in addition to **veterinary school prerequisites**. Minimum total of 100 credits.
See reverse for additional details.

(59) Departmental Requirements

BIOL 22100 **(4)** _____
CHM 25500 + 25501 **(3) + (1)** _____
CHM 25600 + 25601 **(3) + (1)** _____
BCHM 30700 **(3)** _____
BCHM 30900 (1) _____
PHYS 22000 or 23300 **(4)** _____
PHYS 22100 or 23400 **(4)** _____
VM 10200 **(1)** _____

ANSC Courses Required [24]

ANSC 18100[2]✶ (1) _____
ANSC 23000✶ (4) _____
(Principles of Anatomy/Physiology)
ANSC 25500 (3) _____
(Principles of Animal Products)
Principles of Animal Production (3) _____
Animal Breeding and Genetics I (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[6]✶ [10]

Select 10 credits from a minimum of 3 of the following course groupings:

Nutrition ( ) _____
Reproduction ( ) _____
Physiology ( ) _____
Genetics ( ) _____
Products ( ) _____
Behavior/Well-being ( ) _____

(5-6) Free Electives[7,8]

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

International Understanding Requirement[10]✶

_____ (0) _____

_____ (0) _____

_____ (0) _____

(0) Capstone Experience[11]

_____ (0) _____

Note: Courses in bold are required to apply to veterinary school.

[1]Thirty-two credits must be 30000+ level at Purdue campuses.

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/Environ Policy)
   (3) AGEC 21700 (Economics)
   (3) ECON 21000 (Principles of Economics)
   (3) ECON 25100 (Microeconomics)
   (3) ECON 25200 (Macroeconomics)

   *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)
   Band (Limited to 3 credits)
   Classics
   Educational Leadership and Cultural Foundations (Limited to EDST 20000)
   English Literature**
   Foreign Languages and Literature***
   History
   Honors 19900 (Science and Pseudoscience)
   Honors 29900 (Insects in Literature and Art)
   Interdisciplinary Studies
   Philosophy
   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****
   Agriculture (Limited to AGR 20100, AGRY 12300, and YDAE 33100)
   Agronomy (Limited to AGRY 39900 – Afghanistan)
   Anthropology
   Economics
   Forestry & Natural Resources (Limited to FNR 37500)
   Political Science
   Psychological Sciences
   Psyco-educational Studies (Limited to EDPS 23500 and 26500)
   Sociology

   ****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.

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 52400 (3)	ANSC 55500 (3)	ANSC 51400 (3)		ANSC 36000 (3)	
ANSC 52200 (3)		BIOL 41500 (3)		ANSC 55200 (3)	

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.
11. Capstone experience: ANSC 48100 plus one course from production/management block (ANSC 44000-44600).

Animal Sciences: Pre-Veterinary Medicine

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		1	ANSC 18100 Orientation to Animal Sciences	
0.5	AGR 11400 Introduction to Animal Sciences Academic Programs		4	**BIOL 11100 cc Fundamentals of Biology II**	BIOL 11000
3	ANSC 10200 Introduction to Animal Agriculture		4	**CHM 11600 cc General Chemistry**	CHM 11500
4	**BIOL 11000 cc Fundamentals of Biology I**		3-4	**ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition or HONR 19903 Interdisciplinary Approaches in Writing**	
4	**CHM 11500 cc General Chemistry**		2	ANSC 12100 Animal Ethics	
3	MA 16010 Applied Calculus I	ALEKS 75+	1	**VM 10200 Careers in Veterinary Medicine**	
15			**15-16**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	ANSC 22100[cc] Principles of Animal Nutrition	CHM 11100	3	**STAT 30100 Elementary Statistical Methods**	
3	BIOL 23100 Biology III: Cell structure and function	BIOL 11100 & CHM 11600	3	ANSC 25500 Principles of Animal Products	
3	ANSC 24000 Principles of Animal Production		4	ANSC 23000 Principles of Anatomy/ Physiology	BIOL 11100
3	**CHM 25500 Organic Chemistry**	**CHM 11600**	3	**CHM 25600 Organic Chemistry**	**CHM 25500**
1	**CHM 25501 Organic Chemistry Laboratory**		1	**CHM 25601 Organic Chemistry Laboratory**	
3	**UCC Oral Communication Selective (COM 11400, COM 21700, SCLA 10200)**		3	**Humanities Social Sciences**	
16			**17**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	**BCHM 30700 Biochemistry**	CHM 25600	4	**PHYS 22100 General Physics or PHYS 23400 Physics for Life Sciences II**	PHYS 22000 or PHYS 23300
4	**PHYS 22000 General Physics or PHYS 23300 Physics for Life Sciences**		4	**BIOL 22100 Microbiology**	BIOL 11100
4	**ANSC 31100 Animal Breeding and Genetics**	**BIOL 11100 STAT30100**	2-3	ANSC Restricted Selective	
3	ANSC 33300 Reproductive		3	Economics Selective	
3	UCC Humanities Selective		3	UCC Oral Communication Selective	
17			**16-17**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ANSC 48100 Contemporary Issues in Animal Sciences		2-3	ANSC Restricted Selective	
4-6	Animal Science Restricted Selective		2-3	ANSC Restricted Selective	
3	Animal Management Course		2	Animal Restricted Selective	
3	**Humanities or Social Science Selective**		3	Humanities or Social Science Selective (30000+ level)	
2-3	Elective		3	Written or Oral Communication Selective (20000+)	
			3	STAT 30100	
13-16			**15-17**		

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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

Pre-Vet Curriculum and B.S. in ANSC (3+1 Program)
Minimum: 100 credits*

Name: _____ Advisor: _____ Date: _____

(.5) _____ AGR 10100 plus (.5) _____ AGR 11400 and (1) _____ VM 10200

(4) _____ BIOL 11000 (4) _____ BIOL 22100 or (3) _____ BIOL 43800 + (2) _____ BIOL 43900
(4) _____ BIOL 11100 (3) _____ BIOL 23100

(4) _____ ENGL 10600 or (3) _____ ENGL 10800 or (3) _____ HONR 19903

(3) _____ COM 11400 or (3) _____ COM 21700

(3) _____ ANSC 10200 (STS Selective) (3) _____ ANSC 22100 (2) _____ ANSC 12100 (3) _____ ANSC 24000
(1) _____ ANSC 18100 (4) _____ ANSC 23000 (3) _____ ANSC 25500 (4) _____ ANSC 31100
(3) _____ ANSC 33300 (3) _____ ANSC 44000-44600

(4) _____ CHM 11500 or { (3) ____ CHM 11100 / (3) ____ CHM 11200 / (4) ____ CHM 11600 }
and
(4) _____ CHM 11600

Note: CHM 11200 cannot be used for credit if CHM 11600 is taken. If CHM 11100, 11200 and 11600 are taken, only seven credits count towards graduation.

(3) ____ CHM 25500
(1) ____ CHM 25501

(3) ____ CHM 25600
(1) ____ CHM 25601

(3) ____ BCHM 30700 or (3) _____ CHM 33900

(4) _____ PHYS 22000 or PHYS 23300 and (4) _____ PHYS 22100 or PHYS 23400

(3) _____ MA 16010 or (5) _____ MA 16100 or (4) _____ MA 16500
(3) _____ STAT 30100 or (3) _____ STAT 50300

(3) _____ Humanities (HUM Selective) (0) _____ International Understanding Selective
(3) _____ Humanities or Soc. Sci. Selective (BSS Selective) (0) _____ Multicultural Awareness Selective
(3) _____ Humanities or Soc. Sci. Selective

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) _____VM 10200

(4) _____ BIOL 11000 and (4) _____ BIOL 11100
(4) _____ ANSC 31100

(4) _____ ENGL 10600 or (3) _____ ENGL 10800 or (3) _____ HONR 19903
(3) _____ COM 11400 or (3) _____ COM 21700

(4) _____ CHM 11500 or (3) ____ CHM 11100
(4) _____ CHM 11600 (3) ____ CHM 11200
(4) ____ CHM 11600

(Note: CHM 11200 (3) cannot be used for credit if CHM 11600 is taken. If CHM 11100, 11200 and 11600 are taken, only seven credits count towards graduation.)

(3) _____ CHM 25500
(1) _____ CHM 25501

(3) _____ CHM 25600
(1) _____ CHM 25601

(3) _____ BCHM 30700 or (3) ____ BCHM 56100 (3) ____ BCHM 56200 or (3) _____ CHM 33300

(4) _____ BIOL 22100 or (3) _____ BIOL 43800 and (2) _____ BIOL 43900

(4) _____ PHYS 22000 or (4)_____ PHYS 23300
(4) _____ PHYS 22100 or (4)_____ PHYS 23400

(3) _____ STAT 30100 or (3) _____ STAT 50300

Humanities/Social Sciences Electives:

(3) _____ _____
(3) _____ _____
(3) _____ _____

Not required, but highly recommended:

_____ ECON 21000, 25100, or 25200
_____ ANSC 10200
_____ ANSC 32400
_____ ANSC 22100
_____ BCHM 30900
_____ ENGL 42000 or 42100
_____ MGMT 20000 or 21200
_____ CSR 10300 or 32400
_____ BIOL 46600
_____ BIOL 53700
_____ CHM 22400
_____ 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
ADGT	Advanced Global Technology
AEST	Aerospace Studies
AFAS	African American Studies
ASM	Agricultural Systems Management
AMST	American Studies
ANSC	Animal Science
ANTR	Anthropology
AQSC	Aquatic Sciences
ARLC	Arabic Language and Culture
AREG	Architectural Engineering
ARTS	Art and Design Studio
AHST	Art History
ASAM	Asian American Studies
ASIA	Asian Studies
ASTR	Astronomy
BCHM	Biochemistry
BINF	Bioinformatics
BIOS	Biological Sciences
TBIO	Biometrics
BTCH	Biotechnology
BUEC	Business Economics
FRNB	Business French
CHEM	Chemistry
CHNS	Chinese
CLCS	Classical Studies
COMU	Communication
CNIT	Computer and Information Technology
CS	Computer Science
CNEB	Construction Engineering
CNGR	Construction Graphics
CM	Construction Management
CRTV	Creative Writing
CDSS	Critical Disability Studies
CRPS	Crop Science
DANC	Dance
DDAG	Data Driven Agriculture
DSIN	Design and Innovation
EAPS	Earth, Atmospheric, and Planetary Sciences
ECON	Economics
ECEN	Electrical and Computer Engineering
EETC	Electrical Engineering Technology
ETBA	Electronic and Time-Based Art
EGPP	Engineering and Public Policy
ENGL	English
EEE	Environmental and Ecological Engineering
ENPP	Environmental Politics and Policy
EMM	Event and Meeting Management
FARM	Farm Management
FERM	Fermentation Sciences
FILV	Film & Video Studies
FDAG	Food and Agribusiness Management
DDSC	Food Science
FNN	Foods and Nutrition
FRSC	Forensic Sciences
FOEC	Forest Ecosystems
FRNC	French
FRCL	French Cultural Studies
FURN	Furniture Design
GRMN	German
FLES	Global Engineering Studies
GFAS	Global Food and Agriculture Systems
FLLS	Global Liberal Arts Studies
GLOB	Global Studies
HIST	History
HORT	Horticulture
HTMI	HTM International Studies
HDFS	Human Development and Family Studies
HRMM	Human Resource Management
HURS	Human Rights Studies
INNO	Innovation and Transformational Change
IBIO	Insect Biology
IPLE	Intellectual Property Law for Engineers
INTA	International Studies in Agriculture

ISLM Islamic Studies
ITLM Italian
JPNS Japanese
JWSH Jewish Studies
LATF Landscape and Turf
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 Sci.
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 Technolo

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.

AGR 11400 Introduction to Animal Sciences Academic Programs Sem. 1. Class 1, Cr. 0.5. Course meets during weeks 1-8. Co-requisite: AGR 10100.

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 facilitates, 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 an 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

ANSC 49500 Produzioni Animali: Exploring Animal Production in Italy. Sem. 1. Cr. 3.

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.

ANSC 49500 Meat Evaluation Sem. 1. Cr. 2.

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 ≥ 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): _____

ANSC 39000 - Animal Sciences Internship

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 Cooperating Agency Date

_____
Street Address

_____
City State Zip Code

(_____)_____
Business Phone Number

(_____)_____
Fax Number

_____
E-mail

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

ANSC 39000
ANIMAL SCIENCES INTERNSHIP
DEPARTMENT OF ANIMAL SCIENCES
Purdue University
West Lafayette, IN 47907-2041

Student's Name _____Date_____
Job Title of Internship Position _____
Supervisor Making Rating _____
Name
_____(____)_____
Title Telephone Number

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)

A.	Personal Characteristics:	Excellent	Good	Fair	Unacceptable
	Cooperates with management				
	Cooperates with other workers				
	Willingness to work				
	Dependable				
	Honest				
	Ethical behavior				
	Shows initiative				
	Appearance				
	Personality				
	Motivation				
	Accepts supervision				
	Accepts constructive evaluation				
	Punctuality and attendance				
	Professional attitude				
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				

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 on 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:
https://ag.purdue.edu/oap/pages/student_organizations.aspx

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:
SMITH-NUERGE SCHOLARSHIP - $1,000. Recipient must possess a GPA of ≥ 3.0. Sponsors: William and Teri Nuerge.

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. ($2,000 or $2,500? You have both on the Excel spreadsheet.) 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 agriclture 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.

WILLIAM HAGEMEIER FAMILY SCHOLARSHIP FOR ANIMAL SCIENCES - $1,700. Recipient must be a full-time Animal Sciences student. Sponsors: William R. and Pamala Hagemeir.

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