

**AGRICULTURAL SCIENCES, CONCENTRATION—FOOD AND ANIMAL SCIENCES BS DEGREE MAP:
FOOD SCIENCE EMPHASIS (120 CREDIT HOURS)**

This degree map is a semester-by-semester sample course schedule for students majoring in Agricultural Sciences with a concentration in Food and Animal Science, Food Science Emphasis. The milestones listed to the right of each semester are designed to keep you on track to graduate in four years. The schedule serves as a general guideline to help you build a full schedule each semester. Milestones are courses and special requirements necessary for timely progress to complete a major. When you miss one or more milestones, you should consult with an academic advisor to determine if another degree path would be more suitable.

The concentration in Food and Animal Science provides training in principles of breeding, management, production, and marketing of food animal (cattle, swine, goats, sheep, poultry, etc.) and companion animals (horses, dogs, cats etc.). In addition the degree program includes the academic disciplines of food microbiology, food processing and engineering, food chemistry, product development and sensory evaluation. This degree program is designed for those who want a rigorous education in animal science, animal nutrition and health, food science and technology, food quality and safety, food regulation and policies, food product development and novel technologies. Students majoring in food and Animal Sciences must gain upper division status before enrolling in upper division courses (3000 & 4000 levels). Students may be admitted to the upper division after completing at least 60 lower division credits (as set out in the curriculum) with a minimum cumulative grade point average (GPA) of 2.0. It is the responsibility of the student to submit a formal petition to the department. Such petition will be reviewed by a departmental committee to ensure that all criteria have been met. Minimum grade of C is required for upper division courses. Animal Science majors may not have any "D"s in the major field. Students who incur a probationary status are to repeat failed courses, or courses in which 'D's were earned, during the semester immediately following that in which the grades were earned. The College has a special program to assist students who are on probation. Please contact the Academic Coordinator for details.

Tennessee State University recognizes that students have diverse learning, life, and professional experiences. The University provides opportunities for students to earn college credit toward the degree through a number of assessment options that evaluate their learning experiences. These paths are grouped under the category "Prior Learning Assessment" (PLA). Various means of earning PLA credit at TSU are the following: Advanced Placement Program, American Council of Education (ACE) Military Credit, College Level Exam Program (CLEP), DSST Credit by Examination Program (includes DANTES Examination), Institutional Course Challenge Exams (Departmental Exams), International Baccalaureate Credit, Other Military Service, Portfolio Assessment. To learn more about PLA contact your academic advisor or the Office of Student Support Services for Adult and Distance Learners at (615) 963-7001 or adultstudentsupport@tnstate.edu.

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Department Web Address: <http://www.tnstate.edu/agriculturalprograms/degrees/animalscience.aspx>

Fall Schedule		Milestones
Semester 1	Hrs.	Semester 1
AGSC 1410	3	Pre-Requisite Course: Must be taken before AGSC 3400, AGSC 3410, AGSC 4320, AGSC 3430, AGSC 3450, AGSC 3460, AGSC 3480, AGSC 4420, AGSC 4430, and AGSC 4440. Minimum Grade of "C" Required before taking upper level concentration courses
AGSC 2010	3	
CHEM 1110/1111	4	Pre-Requisite Course: Must be taken before CHEM 1120/1121
ENGL 1010	3	Pre-Requisite Course: Must be taken before HIST 2010, HIST 2020, HIST 2030, HIST 2060 AND HIST 2700; Minimum Grade "C" Required
MATH 1730	3	
UNIV 1000*	1	
Total Hours	17	

*An Orientation course taken at another University does NOT meet this requirement. Students with less than 60 credit hours must take UNIV 1000 at TSU.

Spring Schedule		Milestones
Semester 2	Hrs.	Semester 2
AGSC 1200	3	Minimum Grade of "C" Required
AGSC 1600	3	Minimum Grade of "C" Required
BIOL 1110/1111	4	Pre-Requisite Course: Must be taken before BIOL 1120/1121
ENGL 1020	3	Pre-Requisite Course: Must be taken before HIST 2010, HIST 2020, HIST 2030, HIST 2060 AND HIST 2700; Minimum Grade "C" Required
CHEM 1120/1121	4	Pre-Requisite Course: Must be taken before CHEM 2010/2011 Minimum Grade of "C" Required before taking upper level concentration courses
Total Hours	17	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses:
AREN 2310, ART, 1010, HIST 1000, THTR 1020, MUSC 1010, PHIL 1030, or RELS 2010.

Fall Schedule		Milestones
Semester 3	Hrs.	Semester 3
AGSC 2040	3	Minimum Grade of "C" Required
BIOL 1120/1121	4	Minimum Grade of "C" Required before taking upper level concentration courses
HIST 2010*	3	General education requirement
HUMANITIES ELECTIVE**	3	General education requirement
SOCIAL BEHAVIORAL SCIENCE***	3	General education requirement
Total Hours	16	

*The Department recommends HIST 2010; however, HIST 2030, HIST 2060, HIST 2070 or HIST 2700 satisfy this requirement.

**Students must take a 3 credit hour course from the following list of approved general education Humanities courses:
AREN 2310, ART, 1010, HIST 1000, THTR 1020, MUSC 1010, PHIL 1030, or RELS 2010.

***The following courses can meet the Social Science elective: AFAS 2010, ANTH 2300, ECON, 2010, GEOG 1010, HPSS 1510, POLI 1010 PSYC 2010, WMST 2000, and URBS 2010.

Spring Schedule		Milestones
Semester 4	Hrs.	Semester 4
AGSC 2200	3	Minimum Grade of "C" Required
COMM 2200	3	General education requirement
ENGL LIT*	3	General education requirement
HIST 2020**	3	General education requirement
SOCIAL BEHAVIORAL SCIENCE***	3	General education requirement
HUMANITIES ELECTIVE*	3	General education requirement
Total Hours	18	Visit faculty advisor for assessment of academic progress before proceeding to upper level Ag courses.

*Courses within the range of ENGL 2110 - ENGL 2220 will meet this requirement.

**The Department recommends HIST 2020; however, HIST 2030, HIST 2060, HIST 2070 or HIST 2700 satisfy this requirement.
Students must remember **NOT** to duplicate course option from a previous semester.

***The following courses can meet the Social Science elective AFAS 2010, ANTH 2300, ECON, 2010, GEOG 1010, HPSS 1510, POLI 1010 PSYC 2010, WMST 2000, and URBS 2010.

Fall Schedule		Milestones
Semester 5	Hrs.	Semester 5
AGSC 3120	3	Minimum Grade of "C" Required
AGSC 3500	3	Minimum Grade of "C" Required
AGSC 3410	3	Minimum Grade of "C" Required
AGSC 3530	3	Minimum Grade of "C" Required
NUFS 2010	3	Minimum Grade of "C" Required
Total Hours	15	

Spring Schedule		Milestones
Semester 6	Hrs.	Semester 6
AGSC 3112/3111	3	Minimum Grade of "C" Required
AGSC 3400	3	Minimum Grade of "C" Required
AGSC 3510	3	Minimum Grade of "C" Required
AGSC 3690	3	Pre-Requisite Course 3500
Total Hours	12	

Fall Schedule		Milestones
Semester 7	Hrs.	Semester 7
AGSC 4500	3	Minimum Grade of "C" Required
AGSC 4280	3	Minimum Grade of "C" Required
NUFS 3110	3	Minimum Grade of "C" Required
Animal/Food Science elective*	3	Minimum Grade of "C" Required
Total Hours	12	<i>Visit faculty advisor for assessment of academic progress before proceeding to final semester.</i>

* Electives: 3450, 3470, 3480 or 3601.

Spring Schedule		Milestones
Semester 8	Hrs.	Semester 8
		Take Senior Exit Exam and Apply for Graduation
AGSC 3430	3	Minimum Grade of "C" Required
AGSC 4450	3	Minimum Grade of "C" Required
AGSC 4460	3	Minimum Grade of "C" Required
NUFS 4560 or Animal Science elective*	3	Minimum Grade of "C" Required
AGSC 4710/4720	1	Minimum Grade of "C" Required
Total Hours	13	

*Animal Electives: 3450, 3470, 3480 or 3601.

Employment Information:

Students earning a B.S. degree with a focus in the animal sciences are qualified for a wide variety of challenging careers related to animal agriculture and beyond. Training in the animal sciences prepares graduates to work with food animals, companion animals, laboratory animals, wildlife, as well as in biomedical settings. Most jobs are not on the farm. Rewarding career opportunities are available in research, education, government service, business, and industry. An undergraduate degree concentration in Animal Science is a convenient undergraduate option for those interested in further education in veterinary, medical, or graduate school.

Representative Job Titles Related to this Major:

Animal Scientist/Researcher (graduate degree required), Animal Pharmaceutical Sales, Feed Sales, Livestock Equipment Sales, Livestock Procurement/Buyer, Field Representative, Animal/Product Inspector, Research and Lab Technician, Market Forecaster/Reporter, Meat Grader, Teacher/Instructor/Professor, Livestock Production Manager, Game/Exotic Animal Keeper, Extension Specialist, Livestock Marketing Specialist, Livestock Insurance Representative, Loan Officer, Advisor/Consultant, Food/Meat Product Development, Lab/Product Quality Assurance, Animal Trainer/Handler, Public Relations, Veterinarian (professional degree required)

Representative Employers:

Universities, Federal Agencies (e.g., USDA), State Government, Livestock Service Organizations, Research Institutes, Feed Industry, Pharmaceutical Industry, Zoos and Wildlife Conservation Groups, Biomedical Clinics, Public Service Organizations (NGOs), Financial Institutions, Meat Industry, Public Schools, Livestock Operations, Veterinary Clinics

International study is available for all TSU students and may include opportunities for internships or taking course work towards various minors. International study may have an impact on the academic map; therefore, it is important to consult with the academic advisor for this major before participating in an international Program opportunity. Students interested in study abroad opportunities should contact the Office of International Programs and consult with their academic advisor.

Launch My Career Tennessee

To better assist you in making decisions about the career for which you are preparing, a link to the website, Launch My Career Tennessee has been provided for you to explore. The tools on the site will give you a wealth of information concerning your degree choice and possible career pathways. For example, the site will allow you to determine the return on the investment you are making in your education by estimating expected earnings over the course of your career. Begin charting your course by clicking on the link below.

<http://launchmycareertn.org/>

This map is not intended to be a contract, either expressed or implied, between the University and the students, but represents a flexible program of the current curriculum which may be altered from time to time to carry out the academic objectives of the University. TSU specifically reserves the right to change, delete or add to any MAP at any time within the student's period of study at the University.