

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

This degree map is a semester-by-semester course schedule for students majoring in [Agricultural Sciences with a concentration in the Animal 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 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.). Students majoring in 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: Advance Placement Program, American Council of Education (ACE) Military Credit, American Council on Education (ACE) other Assessed 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 (615) 963-7001.

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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 |
| 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 2050 AND HIST 2700; Minimum grade "C" Required                                                                                                            |
| MATH 1110          | 3         | Pre-Requisite Course: Must be taken before BIOL 1120/1121, BIOL 2110/2111                                                                                                                                                                  |
| COMM 2200          | 3         |                                                                                                                                                                                                                                            |
| UNIV 1000*         | 1         |                                                                                                                                                                                                                                            |
| <b>Total Hours</b> | <b>17</b> |                                                                                                                                                                                                                                            |

\*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                                                                                                                              |
|-----------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Semester 2</b>     | <b>Hrs.</b> | <b>Semester 2</b>                                                                                                                       |
| AGSC 1200             | 3           | Minimum grade of "C" Required                                                                                                           |
| <b>BIOL 1110/1111</b> | 4           |                                                                                                                                         |
| ENGL 1020             | 3           | Pre-Requisite Course: Must be taken before HIST 2010, HIST 2020, HIST 2030, HIST 2050 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 |
| HUMANITIES ELECTIVE*  | 3           |                                                                                                                                         |
| <b>Total Hours</b>    | <b>17</b>   |                                                                                                                                         |

\*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                                                                    |
|-----------------------------|-------------|-------------------------------------------------------------------------------|
| <b>Semester 3</b>           | <b>Hrs.</b> | <b>Semester 3</b>                                                             |
| MATH 1140 or 1830           | 3           |                                                                               |
| AGSC 2010 or 2020           | 3           |                                                                               |
| BIOL 1120/1121              | 4           | Minimum grade of "C" Required before taking upper level concentration courses |
| HIST 2010*                  | 3           |                                                                               |
| SOCIAL BEHAVIORAL SCIENCE** | 3           |                                                                               |
| <b>Total Hours</b>          | <b>16</b>   |                                                                               |

\*The Department recommends HIST 2010; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement.

\*\*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                                                                                                              |
|------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Semester 4</b>            | <b>Hrs.</b> | <b>Semester 4</b>                                                                                                       |
| HIST 2020*                   | 3           |                                                                                                                         |
| ENGL LIT**                   | 3           |                                                                                                                         |
| CHEM 2010/2011               | 4           | Pre-Requisite Course: Must be taken before CHEM 3410/3411                                                               |
| SOCIAL BEHAVIORAL SCIENCE*** | 3           |                                                                                                                         |
| <b>Total Hours</b>           | <b>13</b>   | <b>Visit academic advisor for assessment of academic progress before proceeding to upper level Ag courses. PETITION</b> |

\*The Department recommends HIST 2020; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement.

\*\*Courses within the range of ENGL 2012 through ENGL 2322 will meet this requirement.

\*\*\*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                    |
|--------------------|-------------|-------------------------------|
| <b>Semester 5</b>  | <b>Hrs.</b> | <b>Semester 5</b>             |
| AGSC 3460          | 3           | Minimum grade of "C" Required |
| AGSC 3410          | 3           | Minimum grade of "C" Required |
| CHEM 3410/3411     | 4           |                               |
| AGSC 4710          | 1           | Minimum grade of "C" Required |
| HUMANITIES*        | 3           |                               |
| <b>Total Hours</b> | <b>14</b>   |                               |

\*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.

| Spring Schedule    |             | Milestones                                                    |
|--------------------|-------------|---------------------------------------------------------------|
| <b>Semester 6</b>  | <b>Hrs.</b> | <b>Semester 6</b>                                             |
| AGSC 3400          | 3           | Minimum grade of "C" Required                                 |
| AGSC 2040          | 3           | Minimum grade of "C" Required                                 |
| AGSC 3120          | 3           | Minimum grade of "C" Required                                 |
| BIOL 2110/ 2111    | 4           | Can substitute with BIOL 2400/2401 Principles of Microbiology |
|                    |             |                                                               |
| <b>Total Hours</b> | <b>13</b>   |                                                               |

| Fall Schedule                  |             | Milestones                                                                                             |
|--------------------------------|-------------|--------------------------------------------------------------------------------------------------------|
| <b>Semester 7</b>              | <b>Hrs.</b> | <b>Semester 7</b>                                                                                      |
| AGSC 4080                      | 3           | Minimum grade of "C" Required                                                                          |
| AGSC 4440                      | 3           | Minimum grade of "C" Required                                                                          |
| AGSC 4430                      | 3           | Minimum grade of "C" Required                                                                          |
| Livestock Management Elective* | 3           | Minimum grade of "C" Required                                                                          |
| AGSC Elective**                | 3           | Minimum grade of "C" Required                                                                          |
| <b>Total Hours</b>             | <b>15</b>   | <b>Visit academic advisor for assessment of academic progress before proceeding to final semester.</b> |

\*AGSC Livestock Management electives are as follows: AGSC 3450, AGSC 3480, or AGSC 3601.

\*\*AGSC elective are as follows: AGSC 3450, AGSC 3480, AGSC 3601, or AGSC 4420

| Spring Schedule                |             | Milestones                                     |
|--------------------------------|-------------|------------------------------------------------|
| <b>Semester 8</b>              | <b>Hrs.</b> | <b>Semester 8</b>                              |
|                                |             | 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 4500                      | 3           | Minimum grade of "C" Required                  |
| Livestock Management Elective* | 3           | Minimum grade of "C" Required                  |
| AGSC Elective**                | 3           |                                                |
| <b>Total Hours</b>             | <b>15</b>   |                                                |

\*Livestock Management Electives: 3440, 3450, 3601, 4410, or 4420

\*\*AGSC Electives: AGSC 2510, 3000, 3010, 3470, 3480, 3500, 3510, 3520

### **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 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.

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.

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