

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

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

The concentration in Environmental Science provides training in principles of natural resource management, sustainability, soil and water science, environmental economics. Students also learn and implement specific laboratory techniques related to environmental sampling and analysis of soil, water and plant material which will provide important career skills. Students in the environmental science concentration 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 degree level 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 major courses. 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/environmentalsciences/academic_programs/bs_degree.aspx

Fall Schedule		Milestones
Semester 1	Hrs.	Semester 1
ENGL 1010 – Composition I	3	Pre-Requisite Course: Must be taken before ENGL 1020, and HIST 2010, HIST 2020, HIST 2030, HIST 2060, HIST 2070, or HIST 2700; Minimum Grade "C" Required
AGSC 2010 – Introduction to Economics for Agribusiness	3	Required for all Agricultural Science majors; Minimum Grade of "C" Required
UNIV 1000* - Service to Leadership	1	General education requirement
CHEM 1110 or BIOL 1110 – Gen. Chem. or Bio.	3	General education requirement
CHEM 1111 or BIOL 1111 – Gen. Chem. or Bio. Lab	1	General education requirement
AGSC 1410 – Introduction to Animal Science	3	Required for all Agricultural Science majors; Minimum Grade of "C" Required
Total Hours	14	

*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	
ENGL 1020 – Composition II	3	General education requirement	
AGSC 1200 – Introduction to Plant Science	3	Required for all Agricultural Science majors; Minimum Grade of "C" Required	
AGSC 1600 – Introductory Biotechnology	3	Required for all Agricultural Science majors; Minimum Grade of "C" Required	
MATH 1110/1710	3	General education requirement	
CHEM 1120 or BIOL 1120 – Gen. Chem. or Bio. II	3	General education requirement	
CHEM 1121 or BIOL 1121 – Gen. Chem. or Bio. Lab II	1	General education requirement	
Total Hours	16		

*The following courses can meet the Social/Behavioral Science elective AFAS 2010, ANTH 2300, ECON, 2010, ECON 2020, GEOG 1010, GEOG 2020, HPSS 1510, POLI 1010, POLI 2010, PSYC 2010, SOCI 2010, WMST 2000, and URBS 2010

Fall Schedule			Milestones
Semester 3	Hrs.	Semester 3	
COMM 2200 – Public Speaking	3	General education requirement	
Humanities elective*	3	General education requirement	
AGSC 2040 – Research and Business Writing	3	Required for AGSC degree; Minimum Grade of "C" Required	
AGSC 2400 – Fundamentals of Environmental Science I	4	Required for Environmental Science concentration; Minimum Grade of "C" Required	
Social/Behavioral Elective**	3	General education requirement	
Total Hours	16	Petition for Admission to Upper Division	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses:
ART 1010, ENGL 2110, ENGL 2310, ENGL 2012, ENGL 2013, ENGL 2210, ENGL 2120, ENGL 2320, ENGL 2022, ENGL 2023, ENGL 2220, HIST 1000, MUSC 1010, PHIL 1030, or RELS 2010, THTR 1020, AREN 2310.

**The following courses can meet the Social/Behavioral Science elective AFAS 2010, ANTH 2300, ECON, 2010, ECON 2020, GEOG 1010, GEOG 2020, HPSS 1510, POLI 1010, POLI 2010, PSYC 2010, SOCI 2010, WMST 2000, and URBS 2010

Spring Schedule			Milestones
Semester 4	Hrs.	Semester 4	
AGSC 2200 – Fundamentals of Soil Science	3	Required for AGSC degree; Minimum Grade of "C" Required	
Social/Behavioral Elective*	3	General education requirement	
HIST 2010**	3	General education requirement	
AGSC 2401 – Fundamentals of Environmental Science II	4	Required for Environmental Science concentration; Minimum Grade of "C" Required	
CHEM 2010/2011 – Organic Chemistry w/lab or BIOL 2400/2401 – Principles of Microbiology w/lab	4	Required for Environmental Science concentration	
Total Hours	17		

*The following courses can meet the Social/Behavioral Science elective AFAS 2010, ANTH 2300, ECON, 2010, ECON 2020, GEOG 1010, GEOG 2020, HPSS 1510, POLI 1010, POLI 2010, PSYC 2010, SOCI 2010, WMST 2000, and URBS 2010

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.

Fall Schedule			Milestones
Semester 5	Hrs.	Semester 5	
AGSC 2510 – Fundamentals of Geospatial Information Systems	4	Required for Environmental Science concentration; Minimum Grade of "C" Required	
HIST 2020*	3	General education requirement	
AGSC 3120 – Introduction to Applied Statistics	3	Required for AGSC degree; Minimum Grade of "C" Required	
AGSC 3500 – Principles of Food Sci. and Technology	3	Required for AGSC degree; Minimum Grade of "C" Required	
AGSC 3260 – Sustainable Crop Production	3	Required for Environmental Science concentration; Minimum Grade of "C" Required	
Total Hours	16		

*The Department recommends HIST 2020; however, HIST 2030, HIST 2060, HIST 2070 or HIST 2700 satisfy this requirement.

Spring Schedule		Milestones
Semester 6	Hrs.	Semester 6
Humanities elective*	3	General education requirement
AGSC 3111 - Leadership	3	Required for AGSC degree; Minimum Grade of "C" Required
AGSC 3220 – Soil and Environmental Chemistry	3	Required for Environmental Science concentration; Minimum Grade of "C" Required
AGSC 3300 – Plant Protection	3	Required for Environmental Science concentration; Minimum Grade of "C" Required
AGSC 3340 – Natural Resource Management	3	Required for Environmental Science concentration; Minimum Grade of "C" Required
Total Hours	15	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses:
ART 1010, ENGL 2110, ENGL 2310, ENGL 2012, ENGL 2013, ENGL 2210, ENGL 2120, ENGL 2320, ENGL 2022, ENGL 2023, ENGL 2220, HIST 1000, MUSC 1010, PHIL 1030, or RELS 2010, THTR 1020, AREN 2310.

Fall Schedule		Milestones
Semester 7	Hrs.	Semester 7
Humanities elective*	3	General education requirement
AGSC 4210 – Soil, Plant, and Water Analysis	4	Required for Environmental Science concentration; Minimum Grade of "C" Required
AGSC 4500 – Senior Capstone	3	Required for AGSC degree; Minimum Grade of "C" Required
Environmental Science elective**	4	Minimum Grade of "C" Required
Total Hours	14	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses:
ART 1010, ENGL 2110, ENGL 2310, ENGL 2012, ENGL 2013, ENGL 2210, ENGL 2120, ENGL 2320, ENGL 2022, ENGL 2023, ENGL 2220, HIST 1000, MUSC 1010, PHIL 1030, or RELS 2010, THTR 1020, AREN 2310.

**Approved electives include AGSC 3111, AGSC 3320, AGSC 3350, AGSC 3580, AGSC 3590, AGSC 3600, AGSC 4040, AGSC 4260, AGSC 4270, and AGSC 4555.

Spring Schedule		Milestones
Semester 8	Hrs.	Semester 8
		Take Senior Exit Exam and Apply for Graduation
AGSC 4400 – Water Science	4	Required for Environmental Science concentration; Minimum Grade of "C" Required
Environmental Science elective*	4	Minimum Grade of "C" Required
Environmental Science elective*	3	Minimum Grade of "C" Required
AGSC 4710/4720 - Seminar	1	Required for AGSC degree; Minimum Grade of "C" Required
Total Hours	12	

*Approved electives include AGSC 3111, AGSC 3320, AGSC 3350, AGSC 3580, AGSC 3590, AGSC 3600, AGSC 4040, AGSC 4260, AGSC 4270, and AGSC 4555.

NOTE: All courses required for General Education, Agricultural Science major or the Environmental Science concentration have a minimum grade of "C" required.

Employment Information:

Students with this degree will have the necessary educational requirements for wide range of employment in private and government sector.

Representative Job Titles Related to this Major:

The program prepares undergraduates for varied careers such as: Natural resource management officer; Researcher; program leader with the USDA; Quality Control Specialists; Entry-level Executive Trainees; soil scientist; environmental scientist

Representative Employers:

Local, State, Federal Government Agencies, Private industries, Research Institutions

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.