

**West Texas A&M University
Advising Services
Degree Checklist
2024-2025**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: _____ **WT ID:** _____ **DATE:** _____

**Plant, Soil & Environmental Science – Agroecology Emphasis
Department of Agricultural Sciences
AGS 220 651-2550**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
Communication (Core 10)		
ENGL 1301 Intro. to Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Core 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Core 30)		
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Core 40)		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312**/**, 2313*, 2315*, or 2371 Choose 1	3	
Creative Arts (Core 50)		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Core 60)		
HIST 1301, 1302, 2301, 2381, or 2382 Choose 2	6	
Government/Political Science (Core 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Core 80)		
See University Core Requirements below	(3)	
Component Area Option (Core 90)		
See University Core Requirements below	(6)	
PLANT, SOIL AND ENVIRONMENTAL SCIENCE—AGROECOLOGICAL EMPHASIS MAJOR REQUIREMENTS: 82-86 HOURS A grade of "C" or better must be earned in all courses required for major.		
UNIVERSITY CORE REQUIREMENTS: 18 HOURS ♦		
CORE 20 MATH 1314*, 1324*, 2412*[3], or 2413*[3]	3	
CORE 30 ANSC 1319, ANSC 1319L Principles of Animal Sci.	3	
CORE 30 PSES 1307, PSES 1307L Principles of Plant Science	3	
CORE 80 AGBE 2317* Fundamentals of Agricultural Economics	3	
CORE 90 ENGL 1302* Academic Writing and Research OR ENGL 2311* Intro. to Professional & Technical Communication	3	
CORE 90 AGRI 2300 Personal and Professional Leadership Development	3	
MAJOR REQUIREMENTS: 64-68 HOURS		
CHEM 1411*, 1411L Chemistry I OR CHEM 1305*, 1305L General Chemistry	3-4	
Take one course from: CHEM 1412*, 1412L Chemistry II ENVR 1407, 1407L Fundamentals of Environmental Science PHYS 1401*, 1401L General Physics I BIOL 1411, 1411L Botany	4	
PSES 2311 Fundamentals of Soil Science	3	
PSES 2313 Economic Entomology	3	
PSES 3354 Ecology of Rangeland and Agricultural Systems	3	
PSES 4330* Plant Physiology	3	
PSES 4331* Crop Water Management OR PSES 4332* Soil and Water Conservation	3	

**Bachelor of Science Degree
BS.PSES.AGROE (526)**

PSES 4342* Soil Fertility	3	
PSES 4097* Undergraduate Research OR PSES 4398* Plant, Soil & Environmental Science Internship	3	
AGBE 3301* Farm and Ranch Management OR AGBE 3304* Agricultural Business Management	3	
AGBE 3302* Marketing of Agricultural Products	3	
AGRI 1329 Food Science OR ANSC 3374* Principles of Nutrition	3	
AGRI 3103* Agricultural Industry and Career Preparation	1	
AGRI 3301 Genetics OR BIOL 3301 Genetics	3	
AGRI 3318* Agricultural Statistics	3	
AGROECOLOGICAL EMPHASIS: Take 14-17 hours, including a minimum of 12 hours from PSES: PSES 3350 Rangeland Plants PSES 4302* Range/Forage/Wildlife Management PSES 4311* Soil Morphology and Classification PSES 4320 Global Agriculture and the Environment PSES 4332* Soil and Water Conservation PSES 4341* Weeds, Herbicides, and Cultural Control PSES 4350 Agroecosystem and Range Measurements PSES 4352* Integrated Grazing & Wildlife Habitat Mgt. PSES 4356 Rangeland Improvements PSES 4380 Environmental & Livestock Agroecosystems PSES 4398* Plant, Soil & Environmental Science Internship BIOL 2420, 2420L* Applied Microbiology BIOL 3418 Wildland Soils BIOL 3532* Plant Classification BIOL 4310 General Ecology BIOL 4210L* General Ecology Lab ENVR 4305 Intro. to Geographic Information Systems	14-17	
PSES Elective	3	
PSES Elective	3	
ELECTIVES: 10-14 HOURS BY ADVISEMENT ♦		
ELECTIVES (ANY LEVEL) NOTE: MATH 2412[1] or 2413[1] will need to be counted here if taken to satisfy Core 20 requirement.		10-14
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	120	

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

NOTE: This is NOT a degree plan. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

WTAMU ADVISING SERVICES – 2024-2025 Curriculum Guide

Major: Plant, Soil and Environmental Science – Agroecology Emphasis, B.S.

Major Code: 526

Year 1: Fall	
CORE 10 (Communication) – ENGL 1301 or 1311	3
CORE 20 (Mathematics) – MATH 1314 or 1324	3
CORE 30 (Life & Phys. Sci.) – PSES 1307/1307L	3
CORE 90 (Component Area Option) – AGRI 2300	3
CORE – See checklist for options ¹	3
Total:	15

Year 1: Spring	
CORE 30 (Life & Phys. Sci.) – ANSC 1319/1319L	3
CORE 90 (Component Area Option) – ENGL 1302 or 2311	3
PSES 2311/2311L Fund. Soil Science	3
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	15

Year 2: Fall	
CORE 80 (Social & Behav. Sci) – AGBE 2317	3
CHEM 1411/1411L or 1305/1305L	3-4
PSES 2313 Economic Entomology	3
CORE – See checklist for options ¹	3
CORE – See checklist for options ¹	3
Total:	15-16

Year 2: Spring	
AGRI 1329 Food Science or ANSC 3374 Principles of Nutrition	3
BIOL 1411/1411L, CHEM 1412/1412L, ENVR 1407/1407L, or PHYS 1401/1401L	4
PSES 3354 Ecology of Range & Ag. Systems	3
CORE – See checklist for options ¹	3
Elective	3
Total:	16

Year 3: Fall	
AGRI (or BIOL) 3301 Genetics	3
AGBE 3302 Marketing of Agricultural Products	3
AGRI 3103 Agricultural Industry and Career Preparation	1
PSES 4342 Soil Fertility or PSES Selective (see checklist or ² below)	3
PSES/BIOL/ENVR Selective ²	3
CORE – See checklist for options ¹	3
Total:	16

Year 3: Spring	
AGBE 3301 Farm & Ranch Mgt. or AGBE 3304 Agricultural Business Management	3
AGRI 3318 Agricultural Statistics	3
PSES 4330 or PSES 4331 or 4332 (spring only)	3
PSES Selective (see checklist or ² below)	3
Elective	3
Total:	15

Year 4: Fall	
PSES 4342 Soil Fertility or PSES Selective ²	3
PSES Selective ²	3
PSES/BIOL/ENVR Selective ²	3
PSES/BIOL/ENVR Selective ²	3
PSES 4097 Undergrad. Research or PSES 4398 PSES Internship	3
Total:	15

Year 4: Spring	
PSES Selective ²	3
PSES 4330 or PSES 4331 or 4332 (spring only)	3
PSES Selective ²	3
Elective	3-4
Total:	12-13

¹ **CORE:** PSES majors are required to take specific courses for Core 20, Core 30, Core 80, and Core 90. For all other categories, they may select from any available options (see degree checklist). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

² **Selectives:** Take 14-17 hours from the following courses, including a minimum of 12 hours of PSES courses (include all labs): PSES 3350, 4302, 4311, 4320, 4332, 4341, 4350, 4352, 4356, 4380, 4398, BIOL 2420, 3418, 3532, 4310, 4210L, ENVR 4305.

<p>Identified Marketable Skills</p> <p>1) Agriculturally literate, 2) Teachable/leadership/followership, 3) Problem solver 4) Professional, 5) Communicator, 6) Competent in field of study</p>	<p>Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities</p> <p>Corporate Farm Operations - Seed/Chemical Companies - Research Laboratories Crop Consulting</p>
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Additional notes:

- The core curriculum must total exactly 42 hours; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.
- At least 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.