

# West Texas A&M University

## Advising Services

## Degree Checklist

2025-2026

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

Name: \_\_\_\_\_ WT ID: \_\_\_\_\_ Date: \_\_\_\_\_

<b>Plant, Soil and Environmental Science B.S.</b>		
<b>Department of Agricultural Sciences (AGS-220) (651-2550)</b>		
<b>Degree:</b> Bachelor of Science (B.S.)		
See the "Requirements for Baccalaureate Degrees" section of the Catalog.		
<b>Major:</b> Plant, Soil and Environmental Science		
<b>Major Code:</b> 526		
Students choose from one of the following emphases:		
<ul style="list-style-type: none"> <li>Agroecology</li> <li>Crop and Soil</li> <li>Horticulture</li> </ul>	<b>BS.PSES.AGROE</b> <b>BS.PSES.CRPSL</b> <b>BS.PSES.HORT</b>	
<b>University Core Curriculum Requirements (42 hours)</b>		<b>Semester Credit Hours</b>
<b>Core 10 - Communication (3 hours from ENGL options)</b>	<ul style="list-style-type: none"> <li>ENGL 1301 or ENGL 1311</li> </ul>	3
<b>Core 10 - Communication (3 hours from COMM options)</b>	<ul style="list-style-type: none"> <li>COMM 1315; COMM 1318; or COMM 1321</li> </ul>	3
<b>Core 20 - Mathematics (3 hours)</b>	<ul style="list-style-type: none"> <li>See Major-Specific University Core Requirements below</li> </ul>	
<b>Core 30 - Life and Physical Sciences (6 hours)</b>	<ul style="list-style-type: none"> <li>See Major-Specific University Core Requirements below</li> </ul>	
<b>Core 40 - Language, Philosophy and Culture (3 hours)</b>	<ul style="list-style-type: none"> <li>ANTH 2351; ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2311; HIST 2323; HIST 2372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or an equivalent course (second year or intermediate level) in a foreign language]; SPAN 2313; SPAN 2315; or SPAN 2371</li> </ul>	3
<b>Core 50 - Creative Arts (3 hours)</b>	<ul style="list-style-type: none"> <li>ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310</li> </ul>	3
<b>Core 60 - American History (6 hours)</b>	<ul style="list-style-type: none"> <li>HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382</li> </ul>	3 3
<b>Core 70 - Government / Political Science (6 hours)</b>	<ul style="list-style-type: none"> <li>POSC 2305 and POSC 2306</li> </ul>	3 3
<b>Core 80 - Social and Behavioral Sciences (3 hours)</b>	<ul style="list-style-type: none"> <li>See Major-Specific University Core Requirements below</li> </ul>	
<b>Core 90 - Component Area Option (6 hours or fewer; may depend on major requirements)</b>	<ul style="list-style-type: none"> <li>See Major-Specific University Core Requirements below</li> </ul>	

<b>Plant, Soil and Environmental Science Major Requirements (82-86 hours)</b>		
***** C or better required in all courses in the Major Requirements *****		
<b>Major-Specific University Core Requirements (18 hours)</b>		
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.		
<b>Core 20 - Mathematics (3 hours)</b> <ul style="list-style-type: none"> <li>MATH 1314 - College Algebra or MATH 1324 - Mathematics for Business and Economics I or MATH 2412 - Pre-Calculus Math or MATH 2413 - Calculus I</li> </ul> Fourth hour from MATH 2412 or MATH 2413 (if taken) will count towards Elective hours.	3	
<b>Core 30 - Life and Physical Sciences (6 hours)</b> <ul style="list-style-type: none"> <li>ANSC 1319 - Principles of Animal Science</li> <li>PSES 1301 - Principles of Horticulture (for Horticulture emphasis) or PSES 1307 - Principles of Plant Science (for Crop and Soil and Agroecology emphases)</li> </ul>	3	3
<b>Core 80 - Social and Behavioral Sciences (3 hours)</b> <ul style="list-style-type: none"> <li>AGBE 2317 - Fundamentals of Agricultural Economics</li> </ul>	3	
<b>Core 90 - Component Area Option (6 hours)</b> <ul style="list-style-type: none"> <li>AGRI 2300 - Personal and Professional Leadership Development</li> <li>ENGL 1302 - Academic Writing and Research or ENGL 2311 - Introduction to Professional and Technical Communication</li> </ul>	3	3
<b>Plant, Soil and Environmental Science Core Requirements (44-45 hours)</b>		
CHEM 1411 - Chemistry I or CHEM 1305 - General Chemistry I	3-4	
CHEM 1412 - Chemistry II or ENVR 1407 - Fundamentals of Environmental Science or PHYS 1401 - General Physics I or BIOL 1411 - Botany	4	
PSES 2311 - Fundamentals of Soil Science	3	
PSES 2313 - Economic Entomology	3	
PSES 3354 - Ecology of Rangeland and Agricultural Systems	3	
PSES 4097 - Undergraduate Research or PSES 4398 - Plant, Soil and Environmental Science Internship	3	
PSES 4330 - Plant Physiology	3	
PSES 4331 - Crop Water Management or PSES 4332 - Soil and Water Conservation	3	
PSES 4342 - Soil Fertility	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	

<b>Required Courses for Emphasis (14-17 hours)</b>	
Complete one emphasis: Agroecology; Crop and Soil; or Horticulture	
<b>Agroecology Emphasis (14-17 hours, including a min. of 12 hours from PSES courses)</b> 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 and Wildlife Habitat Management PSES 4356 - Rangeland Improvements PSES 4380 - Environmental and Livestock Agroecosystems PSES 4398 - Plant, Soil and Environmental Science Internship BIOL 2420 - Applied Microbiology BIOL 3418 - Wildland Soils BIOL 3532 - Plant Classification BIOL 4310 - General Ecology BIOL 4210L - General Ecology Lab ENVR 4305 - Introduction to Geographic Information Systems	<b>14-17</b>
<b>Crop and Soil Emphasis (14-17 hours, including a min. of 12 hours from PSES courses)</b> PSES 3130 - Soil Profile Evaluation PSES 3131 - Applied Soil Survey PSES 3272 - Individual Study of Seed and Plant Quality PSES 4310 - Plant Breeding and Cultivar Development PSES 4311 - Soil Morphology and Classification PSES 4320 - Global Agriculture and the Environment PSES 4321 - Grain, Fiber and Oilseed Crops PSES 4331 - Crop Water Management PSES 4332 - Soil and Water Conservation PSES 4341 - Weeds, Herbicides and Cultural Control PSES 4351 - Plant Pathology PSES 4371 - Field Crop Entomology PSES 4380 - Environmental and Livestock Agroecosystems PSES 4398 - Plant, Soil and Environmental Science Internship BIOL 2420 - Applied Microbiology BIOL 3418 - Wildland Soils BIOL 3532 - Plant Classification BIOL 4310 - General Ecology BIOL 4210L - General Ecology Lab ENVR 4305 - Introduction to Geographic Information Systems ENVR 4404 - Environmental Sampling and Interpretation	<b>14-17</b>
<b>Horticulture Emphasis (14-17 hours, including a min. of 12 hours from PSES courses)</b> PSES 1307 - Principles of Plant Science PSES 4094 - Directed Studies PSES 4301 - Greenhouse Management PSES 4311 - Soil Morphology and Classification PSES 4320 - Global Agriculture and the Environment PSES 4321 - Grain, Fiber and Oilseed Crops PSES 4331 - Crop Water Management PSES 4332 - Soil and Water Conservation  <i>Continued...</i>	<b>14-17</b>

