



# DEPARTMENT OF PLANT & SOIL SCIENCE

TEXAS TECH  
Davis College

**Major:** Plant and Soil Science  
**Concentration:** Environmental Soil & Water Science  
**Catalog year:** 2025 - 2026

**Name:** \_\_\_\_\_

**R#:** \_\_\_\_\_

## General Course Requirements (51 hours)

## Plant and Soil Science Core Requirements (69 hours)

### BIOL

- ☐ 1401-Biology of Plants

### CHEM

- ☐ 1307-Chemistry I & 1107-Chemistry I Lab  
☐ 1308-Chemistry II & 1108-Chemistry II Lab

### ENGL

- ☐ 1301-Essentials of College Rhetoric  
☐ 1302-Advanced College Rhetoric  
☐ 2311-Intro. to Technical Writing or 3365-Professional Report Writing or ACOM 2302-Scientific Communications in Agriculture & Natural Resources

### HIST

- ☐ 2300-History of U.S. to 1877  
☐ 2301-History of U.S. since 1877

### POLS

- ☐ 1301-American Government  
☐ 2306-Texas Politics and Topics

### SOCIAL & BEHAVIORAL SCIENCE

- ☐ AAEC 2305-Fundamentals of Agricultural and Applied Economics or AAEC 1301-Economics, Ecology, and Ethics \*\* or ECO 2301-Principles of Economics I

### COMS

- ☐ 2300-Public Speaking or 2358-Business & Professional Communication

### MATH

- ☐ 1320-College Algebra, or 1321-Trigonometry, or 1330-Introduction to Mathematical Analysis I

**and**

- ☐ AAEC 2301 -Agricultural Statistics (or MATH 2300)

- ☐ Language, Philosophy & Culture (3 hrs)

- ☐ Creative Arts (3 hrs) \_\_\_\_\_

- ☐ Foreign Language (1 year) or 2 years High School Credit \_\_\_\_\_

\*\* It's important to note that AAEC 1301 does not substitute for AAEC 2305 as a prerequisite for upper level coursework (Agribusiness Minor).

### PSS Core (27 – 28 Hours)

- ☐ 1100-First year & Transfer Student Seminar\*  
☐ 1411-Principles of Horticulture or 1321-Agronomic Plant Science  
☐ 2401-Introductory Entomology  
☐ 2432-Principles & Practices in Soils  
☐ 3323-Crop Physiology\*  
☐ 3421-Fundamental Principles of Genetics  
☐ 4100-Seminar\*  
☐ 4421-Principles of Weed Science\*  
☐ 4315-Introductory Plant Pathology

Classes designated with (\*) are part of the Department's Communication Literacy Plan and cannot be substituted.

### Required Concentration Hours (25 hours):

- ☐ PSS 4325-Crop Water Management  
☐ 4330-Environmental Soil Chemistry  
☐ 4331-Soil Microbial Ecology  
☐ 4332-Soil Classification  
☐ 4335-Soil Fertility & Nutrient Management  
☐ 4336-Soil Physical Properties  
☐ 4337-Environmental Soil Science  
☐ CHEM 2303 & 2103 or 3305 & 3105

### Additional Concentration Hours (16-17 hours):

- ☐ PSS 3309-Introduction to Turfgrass Science  
☐ 3321-Forage & Pasture Crops  
☐ 3322-Grain, Fiber, & Oilseed Crops  
☐ 4000-Internship  
☐ 4001-Problems  
☐ 4301-Agricultural Compounds  
☐ 4305-Integrated Pest Management  
☐ 4316-Landscape Water Conservation & Ecology  
☐ 4320-Sustainable Agriculture  
☐ 4340 – Irrigation Management Seminar  
☐ GEOG 1303-Physical Geology  
☐ GIST 3300-Geographic Information Systems  
☐ GIST 3301-Remote Sensing of the Environment  
☐ NRM 4314-Watershed Planning

✓ **Students must earn a "C" or better in all PSS courses.**

✓ **In order to graduate, all PSS students must pass a minimum of 40 credit hours of 3000 or 4000 level courses.**

✓ **Total hours required for degree: 120**

Other hours earned: \_\_\_\_\_