



TEXAS TECH UNIVERSITY

Davis College

Plant & Soil Science™

Major: Plant and Soil Science

Concentration: Environmental Soil & Water Science

Catalog year: 2024 - 2025

Name: _____ R# _____

General Course Requirements (51 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) _____

- ☐ Multicultural Requirement (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).

Plant and Soil Science Core Requirements (69 hours)

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 (28 hours):

- ☐ PSS 4301-Agricultural Compounds
☐ 4325-Crop Water Management
☐ 4330-Environmental Soil Chemistry
☐ 4331-Soil Microbial Ecology
☐ 4332-Soil Classification
☐ 4335-Soil Fertility & Nutrient Management
☐ 4337-Environmental Soil Science
☐ GIST 3300-Geographic Information Systems
☐ CHEM 2303 & 2103 or 3305 & 3105

Additional Concentration Hours (13-14 hours):

- ☐ PSS 3309-Introduction to Turfgrass Science
☐ 3321-Forage & Pasture Crops
☐ 3322-Grain, Fiber, & Oilseed Crops
☐ 4000-Internship
☐ 4001-Problems
☐ 4305-Integrated Pest Management
☐ 4316-Landscape Water Conservation & Ecology
☐ 4320-Sustainable Agriculture
☐ 4336-Soil Physical Properties
☐ 4340 – Irrigation Management Seminar
☐ GEOG 1303-Physical Geology
☐ 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: _____