



TEXAS TECH UNIVERSITY

Davis College

# Plant & Soil Science™

**Major:** Plant and Soil Science

**Concentration:** Horticulture & Turfgrass Science

**Catalog year:** 2024 - 2025

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) \_\_\_\_\_

- 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).

#### PSS Core (28 Hours)

- 1100-First-year & Transfer Student Seminar\*
- 1411-Principles of Horticulture
- 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 2312-Propagation Methods
- 2313-Herbaceous Plant Materials
- 3309-Introduction to Turfgrass Science
- 3318-Woody Plants
- 4000-Internship (3 hours)
- 4313-Arbiculture
- 4316-Landscape Water Conservation & Ecology
- 4411-Controlled Environment Crop Production

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

- PSS 2310-Floral Design
- 2114-Wine Production Introduction Lab
- 2314-Wine Production Introduction
- 3311-Sustainable Vegetable Crop Production
- 3312-Sustainable Fruit & Nut Crop Production
- 4001-Problems
- 4301-Agricultural Compounds
- 4305-Integrated Pest Management
- 4312-Environmental Ethics, Biodiversity, and Permaculture
- 4314-Management of Horticulture Enterprises
- 4318-Landscape Pest Management
- 4320-Sustainable Agriculture
- 4321-Fundamental Principles of Plant Breeding
- 4323-Organic Crop Production Systems
- 4325-Crop Water Management
- 4331-Soil Microbial Ecology
- 4335-Soil Fertility & Nutrient Management
- 4336-Soil Physical Properties
- 4337-Environmental Soil Science
- 4340-Irrigation Management Seminar
- 4415-Plant Genomics & Biotechnology

✓ 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: \_\_\_\_\_