



TEXAS TECH UNIVERSITY

College of Agricultural Sciences & Natural Resources

Major: Plant and Soil Science

Concentration: Environmental Soil & Water Science

Catalog year: 2020 - 2021

Name: _____ R# _____

General Course Requirements (52 hours)

Plant and Soil Science Core Requirements (68 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 2401 -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 – 29 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*

4425-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 (11-12 hours):

PSS 2316-Introduction to Sustainable Agriculture

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

4336-Soil Physical Properties

4340 - Irrigation Management Seminar

GEOL 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: _____