



Major: Plant and Soil Science

Concentration: Environmental Soil & Water Science

Catalog year: 2023 - 2024

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 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 – 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 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: _____