CSES 2224: FOUNDATIONS OF PRECISION AGRICULTURE

Tuesday & Thursday 9:30 a.m. to 10:45 a.m.

Explore integrated technologies in the plant and environmental sciences including:

- GPS
- GIS
- Remote and proximal sensing
- Variable rate technology
- Decision support systems
- Application to site-specific nutrient, water, weed and disease management.

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
SCHOOL OF PLANT AND ENVIRONMENTAL SCIENCES
VIRGINIA TECH.

CSES 4524: Drone Applications in Ag Systems

Tuesday & Thursday 11 a.m. to 12:15 p.m.

- Unmanned Aerial Systems to collect ultrahigh spatial resolution images and remote sensing
- Components of drones and sensors
- UAS operational concepts and legal
- requirements
- Principles of drone data collection and
- platforms
- Overview of data processing software, map generation and photogrammetry

VT

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
SCHOOL OF PLANT AND ENVIRONMENTAL SCIENCES
VIRGINIA TECH®

CSES 4534: INTERNET OF THINGS FOR SMART FARMING

Monday & Wednesday 4 p.m. to 5:15 p.m.

What you will learn:

- IoT technology and applications to smart farming ecosystem
- Platforms and systems used in smart farming programs
  - IoT components
  - Data management
  - Cybersecurity
- Applying wireless sensors, controllers, computers, actuators, and software via wireless network devices

COLLEGE OF AGRICULTURE AND LIFE SCIENCES
SCHOOL OF PLANT AND ENVIRONMENTAL SCIENCES
VIRGINIA TECH®

HORT 4654: VITICULTURE

Online Asynchronous

- Overview of grapevine growth and development
- Factors affecting yield and grape quality
- Vineyard financial considerations
- Site evaluation
- Varietal characteristics plus cultural practices of pruning, training, canopy management, fertilization, and pest management

VT COLLEGE OF AGRICULTURE AND LIFE SCIENCES
SCHOOL OF PLANT AND ENVIRONMENTAL SCIENCES
VIRGINIA TECH®