

DIGITAL AGRICULTURE CURRICULUM

As more farms adopt precision agriculture technology, the industry will need people with proven skills in Geographic Information Systems (GIS), data science, programming, unmanned aerial vehicles (UAVs) and equipment.

Purdue Extension's *Digital Agriculture Curriculum* prepares participants for early jobs in agriculture through experiential learning in precision agriculture technology.

Curriculum Overview

The curriculum is designed for:

- High school juniors/seniors
- Career center patrons
- Community/junior college students
- Early career professionals

Units include:

- Soil Nutrient Management
- Integrated Pest Management
- Data Management
- Precision Equipment
- Plant Nutrient Management
- Applied Information Technologies
- Precision Agronomy
- UAV Technologies

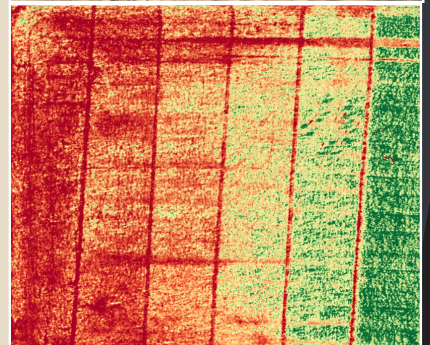
Facilitator resources include:

- Detailed instructor manuals with required equipment lists
- 90+ student activities
- Educator training workshop
- Comprehensive PowerPoint slides
- Support from Purdue Extension Digital Agriculture specialists

Core Competencies

Those completing the course will:

- Understand basic soil science, interpret soil tests, plant science, and plant tissue tests, and generate fertilizer recommendations.
- Pilot UAVs for remote sensing and imagery interpretation.
- Employ various sensing platforms, computer programming languages and internet of things (IoT) technologies to create basic software and agronomically useful devices.
- Implement data management practices to understand, clean, analyze, visualize, interpret and summarize data using various software.
- Learn to work with a GIS to develop variable rate technology prescriptions.



SIGN UP at puext.in/DigitalAg
or contact us for more information!

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