

# AGRONOMY CERTIFICATE

---

James Uphaus, PhD, **Chair**  
 Phone: (419) 995-8207  
 Email: [uphaus.j@rhodesstate.edu](mailto:uphaus.j@rhodesstate.edu)  
 Office: JJC 179M

The Agronomy certificate provides students with the skills in agronomy to support a career in this ever-changing field. Most local career opportunities in agriculture require agronomic knowledge and the ability to earn the Certified Crop Advisor certificate. The Agronomy certificate includes courses in soils, crop management, nutrient management, and integrated pest management. The soils class discusses soil properties and formation from glaciation including drainage. Crop management evaluates cropping systems and environmental interactions affecting yield. Nutrient management assesses plant nutrient needs with the 4R program, Tri-State guidelines, and best management practices and nutrient retention. Integrated pest management provides an understanding of economic and environmental aspects of controlling field pests. The courses utilize team learning and individual internships to integrate local and global information. Problem solving exercises and contemporary computer software are integrated into the courses based on input from local agricultural business.

## Technical Standards

See [here](#) for details.

## Agronomy Certificate

### First Year

First Semester		Hours
AGR 1401	Introduction to Soils for Agronomic Production	3
AGR 1402	Principles of Crop Management	3
AGR 1403	Principles of Nutrient Management	3
AGR 1404	Introduction to Integrated Pest Management	3
CHM 1110	Introductory General Chemistry	4
AGR 2991	Field Experience	1
<b>Term Hours</b>		<b>17</b>
<b>Total Hours</b>		<b>17</b>

## Technical Standards

See [here](#) for details