

## Nutrient Management: Land Application and Planning

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Office Hours: drop-in or by appointment only

Course Location: Virtual Synchronous Lecture

Course Hours: 2:00-5:50 Mondays

### Tentative Course Discussion Topics:

- What are the wastes from agricultural activities
- What materials can be applied to land
- What is in these various wastes
- How can these components benefit us
- How can these components hurt us and/or the environment
- What regulations are associated with these wastes
- What is done with the wastes – pros and cons
- Determining nutrient needs
- Nutrient rates, sources, timing and placement decisions
- Calculating nutrient application rates
- Use of SNAP-Plus software
- Farm practices: equipment, sampling patterns, precision agriculture
- Field Trips (to be announced)

### Students Completing This Course Will Be Able To:

- Describe various agricultural waste products and avenues of disposal or reuse.
- Define differences between wastes from agricultural and other sectors.
- Access regulations for waste disposal or reuse.
- Develop fertilizer recommendations from soil test results.
- Access nutrient management regulations.
- Navigate and use nutrient management planning software to prepare a plan.
- Describe economic/societal/legal/environmental influences on nutrient management planning.

### Student Assessment:

Homework Assignments	35%	(waste characteristics, regulations, biosolids, spill response)
Final Assignment	25%	(nutrient management plan)
Final Exam	25%	(Virtual)
Participation/Professionalism	15%	(classes, 3-4 field trips)

Cheating and/or plagiarism will not be tolerated. You may work together in laboratory and class discussions, but you will do all assignments and exams independently. You must present your own interpretations of analyses and reflect your understanding of the problem or assignment. Your instructor may allow you to submit joint assignments on a case-by-case basis.