

## AGRI1300 - Introduction to Precision Agriculture

| Credits:           | 3 (3/0/0)  |
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| Description:       | In this course, students study the theory and principles of precision agriculture equipment, become familiar with the Global Positioning System (GPS) and develop a working knowledge of variable rate systems. Students gain a general overview of current and emerging technologies in precision agriculture as they relate to farm operations and production agriculture.   |
| Prerequisites:     |  |
| Corequisites:      |  |
| Pre/Corequisites*: |  |
| Competencies:      | <ol> <li>Identify the segments and components of the Global Positioning System.</li> <li>Explain how the Global Positioning System operates.</li> <li>Describe differential technology.</li> <li>Identify the components of a yield monitoring system.</li> <li>Interpret map projections and coordinate systems.</li> <li>Understand and use basic data models.</li> <li>Understand Geographic Information Systems (GIS) analysis and spatial modeling.</li> <li>Understand the operation and data processing of electronic equipment used in precision agriculture.</li> </ol> |
| MnTC goal areas:   | None   |

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.