Course Title:
Directed Studies in Modern Agricultural Technology

Catalog Description:
Directed Studies in Modern Agricultural Technology evaluates modern agricultural technological changes and will determine if they fit into an individual’s farming operation.

Prerequisites or Necessary Entry Skills/Knowledge:

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered (General)

1. Examine emerging agricultural technology
   a. Lay out an application plan for integrating ag technology into the farming operational goals
   b. Determine the advantages and disadvantages of the application of ag technology into the business
   c. Investigate the feasibility of the application of technology into the business
2. Promote administrative skills
   a. Improve written and oral presentation skills
   b. Develop team and/or project management skills

Student Learning Outcomes
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<tr>
<th>Prepare a technology needs assessment of the operation</th>
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<td>Determine the current available technology now employed on site</td>
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<td>Compare available technologies available to the operation</td>
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<tr>
<td>Develop cash flow projections involving technological investments</td>
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<td>Assess the value of potential investments in technology</td>
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<td>Implement the technology</td>
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| Is this course part of a transfer pathway: Yes ☐ No ☒ |

Revised Date: 4/1/2023