

The mechanized agriculture prepares students to maintain machinery and equipment for agricultural use. The curriculum trains students to repair and maintain all types of agricultural equipment, and includes farm welding, engine repair and tune-ups, and the proper calibration of planting, irrigation, harvesting equipment, and precision farming (GPS/GIS). Additionally, courses in business management, agricultural records, marketing, and the use of computers are included in the program of study.

## Required Program of Study for Associate of Applied Science Degree (2 years)

### FRESHMAN YEAR

First Semester	
Course	Credits
AGRI 1005 Introduction to Agriculture Technology.....	3
AGRI 1030 Introduction to Soil Science.....	3
AGRI 1040 Introduction to Soil Science Lab .....	1
AGRI 1105 Issues in Agriculture I** .....	1
AGRI 1130 Large Engine Maintenance.....	1
AGRI 1140 Large Engine Maintenance Lab.....	2
AGRI 1400 Farm and Environmental Safety.....	2
MATH 1020 Technical Mathematics I* .....	3
	16

Second Semester	
Course	Credits
AGRI 1050 Farm Welding.....	1
AGRI 1060 Farm Welding Lab.....	2
AGRI 1131 Plant Science .....	3
AGRI 1132 Plant Science Lab .....	1
AGRI 1280 Crop Chemicals.....	2
AGRI 1350 Tillage, Planting and Spraying Equipment.....	1
AGRI 1360 Tillage, Planting and Spraying Equipment Lab.....	1
AGRI 1410 Introduction to the Economics of Agriculture* .....	3
AGRI 1500 Microcomputer Applications in Agriculture* .....	3
	17

Summer	
Course	Credits
AGRI 2020 Crops and Irrigation .....	3
AGRI 2030 Crops and Irrigation Lab .....	1
OR	
AGRI 2040 Livestock Production I.....	3
AGRI 2050 Livestock Production I Lab.....	1
OR	
AGRI 1300 Cooperative Internship I.....	6
	4-6

\* Course fulfills a general education requirement for Northeast Community College.

NOTE: See General Education Requirements.

\*\*AGRI 1120 Food Agriculture Natural Resource Systems can be substituted for AGRI 1105 Issues in Agriculture I.

Agriculture students are encouraged to consult their advisor in the agriculture department to identify the best courses to fulfill agriculture elective requirements. The Northeast Community College agriculture program has articulation agreements with the University of Nebraska-Lincoln, Wayne State College, South Dakota State University, and Northwest Missouri State. If interested in more information, consult your advisor.

### SOPHOMORE YEAR

First Semester	
Course	Credits
AGRI 1290 International Agriculture and Agribusiness.....	3
AGRI 2015 Farm and Ranch Management .....	4
AGRI 2100 Farm Electricity and Wiring.....	1
AGRI 2105 Farm Electricity and Wiring Lab.....	2
AGRI 2200 Advanced Fertilizers .....	2
AGRI 2250 Grain Harvesting and Handling Systems .....	3
ENGL 1050 Workplace Communication* .....	3
	18

Second Semester	
Course	Credits
AGRI 1420 Interpersonal Skills* .....	3
AGRI 2010 Irrigation and Equipment .....	3
AGRI 2140 Farm Welding Repair and Projects .....	1
AGRI 2150 Farm Welding Repair and Projects Lab .....	2
AGRI 2290 Agricultural Commodities Marketing .....	3
AGRI 2890 Agriculture Capstone Experience .....	1
Agriculture Elective .....	3
	16

#### Additional Requirement:

AGRI 1025 Farm Experience Lab.....0.5  
See your advisor to identify which semester is best for your individualized interests.

Total Credit Hours 71.5-73.5