Course Information Form (CIF)

Course Code: AGC 214

Course Title: AGCO Precision Technology

Department: Agricultural Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 47.0605
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 2-1-2
Credit Hour Distribution:

Lecture: 2	Lab: 1	Clinical: 0	**Total: 2**

General Course Information

Catalog Description

Theoretical and practical application of AGCO precision farming systems as related to agriculture. Global Positioning Satellite and Advanced Farming Systems with emphasis on software, product information, calibration, and hardware functions.

General Course Objectives

Students will be taught the function of a precision farming system, perform software loading and calibration, learn hardware functions and repair, and learn an auto guide system.

Minimum Placement Levels

English	Reading	Math
Placement into ENG 098	Placement into CCS 098	Placement into MAT 060

Prerequisites

None

Methods of Evaluation

Students will be given a minimum of 4 objective exams, 4 lab practicals, and 2 performance exams.

Instructional Materials and Additional Supplies

No textbook required. Uses manufacturers' tech manuals.
Students will need the required tool sets for the AGCO Technician program.

Course Content

General Learning Outcomes (GLOs)

- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.
- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Precision Farming System	1. Demonstrate how a precision farming system works.	8	1	0
Precision Farming Software	1. Describe what precision farming software is. 2. Demonstrate how to load, calibrate, and troubleshoot the software.	5	3	0
Yield Monitors	1. Describe what yield monitors are. 2. Demonstrate how to calibrate, troubleshoot, and repair yield monitors.	6	4	0
Auto Guide Systems	1. Describe what an auto guide system is. 2. Demonstrate how to calibrate, troubleshoot, and repair an auto guide system.	5	3	0
Laser Equipment	1. Describe what a laser system is. 2. Demonstrate how to calibrate, troubleshoot, and repair a laser system.	6	4	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	15	0