

Unit 2 - GPS and Auto Steer

Introduction

In this unit students will learn about GPS and auto steering systems. The activities and assignments are designed to expose students to GPS and auto steer fundamentals/hardware with an emphasis on providing “hands on” exercises.

Objectives

In this unit students will

- Identify the differences in GPS correction accuracy and how it applies the farm.
 - Identify accuracy and repeatability of each type of correction
- Describe the different types of auto steer systems.
 - Electric versus hydraulic
- Explain how the systems are used in the field.
 - How to use the different types of guidance patterns available

Readings and Resources

- Unit 2 GPS and Auto Steer Outline
- Online Tutorials
- Links to online resources

Assignments

Complete:

- Readings
- Discussion 2
- Project 2
- Quiz 2

Please complete the activities below. If you have any questions, please message me. Make sure to read the material in "Readings and Resources" above. Thank You!

Discussion 2 -

Why would anyone spend all of that money on auto steer? I'm pretty sure the manufacturers are still putting steering wheels in the vehicles. How can auto steer pay for itself?

The discussion board forums are an opportunity to have thoughtful discussions about a given topic in precision agriculture. The questions raised will be general in nature and ask you to think deeply.

Please post your initial response by the due date listed in the Course Calendar. Students should then respond to at least one classmate's initial post.

This discussion is worth 20 points.

Project 2

What type of GPS correction is best for the farm and why. I'll give examples of different grower situations and tell me which kind of GPS correction would best fit the farmer and why.

Complete the project, save, then upload the document for the project by clicking on the Project Title.

This assignment has a point value of: 20 points

Quiz 2

The quiz for this module contains 20 multiple choices and true/false questions. Students will have one attempt and a 30 minute time limit to complete the quiz.

This quiz has a point value of: 20 points