

Program Prerequisites

Semester Course

- Final grade of C or higher in 6th grade science
- Final grade of C or higher in 6th grade mathematics
- Preferred: Participation in the technology/STEM program.

Year Long Course

- Final grade of C or higher in 7th grade science
- Final grade of C or higher in 7th grade mathematics
- Must be in 8th grade
- Preferred: Have already taken the semester course in 7th grade



Certification Requirements

- Completion of the AgriRobotics course with a final grade of C or higher
- Completion of all group design and engineering projects
- Participation in the Indian Trails Flagship Showcase

AGRIROBOTICS

Agriculture & Applied Robotics

Indian Trails
Flagship Program



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“I never thought engineering and robotics applied to agriculture. I’ve been exposed to many more job opportunities.”



Why Robotics?

The purpose of our AgriRobotics program is to provide a hands-on learning experience. It is a fun and challenging course that encourages cooperative learning and provokes students to push the limits in their robotic projects.

AgriRobotics blends our agriculture and robotics classes to help students find ways to use automated systems to help them prepare for possible future jobs in the technology/agricultural industries.



Program Structure

1. Our semester course is open to 7th grade students. LEGO EV3 Education robotic kits are utilized. Students will apply knowledge and critical thinking skills to design and engineer robots to complete challenges that pertain to agricultural needs.
2. Our yearlong course is open to 8th grade students and provides the students with an opportunity to go more in depth in their understanding of how robots work. 8th grade scholars will learn an introduction to circuitry using electronic breadboard kits. Students are also given an opportunity to investigate and design automated open-source farming techniques.