

Bloomfield Schools

Project	Agriculture Upgrades
School Site	Bloomfield High School
Start Date	Upon receiving funding (~2022-2023 SY)
Benefits	Any high school student in Bloomfield Schools (BHS & CYB)
Estimated Cost	\$ 50,000 (\$50K operational upgrades) & (\$14,500 program upgrades)

Bloomfield schools is looking into upgrading its current Agriculture program currently offered at Bloomfield High School. Agriculture is an industry full of possibilities powered by the latest technologies. Students can explore the variety of career pathways at their disposal. Farmers and ranchers are the entrepreneurs of rural America—taking huge financial risks, managing big budgets, and investing in the latest agricultural technology. To be successful in the real-world, students will need experiences and opportunities to develop business skills as well as skills of the trade which include:

- Discover the components of agriculture from a foundational level
- See how science and tech help produce and maintain better plants and animals
- Learn the business side of agricultural commodities
- Learn to use common agricultural tools and materials
- Gain a fundamental understanding of mechanical engineering
- Discover technology for an efficient supply chain

The agricultural upgrade includes making operational and program changes which entails:

- Relocating the greenhouse to an area that will provide more space to students for agricultural studies.
- Explore advanced farming techniques such as hydroponics that are currently used in the workplace.
- Create a space for solar energy stations that can be used to investigate green energy such as electrical and water heating systems which are at the center of the global green energy initiative.
- Creating a barn space on school property to house and board animals for students to care for and learn how to maintain them properly. The barn space will include stalls for animal keep, a feed room, a tack room, and a washing bay.
- Creating an external growing space where students can cultivate crops

Proposed Budget

Greenhouse panels	Operational	Replace aged greenhouse plastic with better paneling for the green house	\$5,000
Solar Panels electrical	Operational	Support green-house and exploratory sciences	\$2,500
Solar Water Heating	Operational	Support green-house and exploratory sciences	\$2,000
Fencing	Operational	Facility security, create safe spaces	\$5,000
Barn Space	Operational	Barn Facility	\$35,000
Learning Equipment	Program	Purchase miscellaneous equipment for the study of hydroponics	\$500
Competition Entry Fees	Program	Livestock Judging Contests, Public Speaking, Extemporaneous Speaking, FFA Creed Contest, Travel, Hotel, and food for travel.	\$5,000
FFA Activities	Program	NM Leadership Conference (Las Cruces), "A Day at the Roundhouse" (Santa Fe), State Conference (Las Cruces)	\$9,000
		Total	\$64,500