



Plant Science

New Visions Program

Program Information

Plant Science is a 1-year, senior-level, highly academic program that allows students to explore the field of horticulture and plant sciences while earning high school and exclusive, real-world experience. Students will learn greenhouse management, plant and soil science, and landscape design. Topics of study include: the foundations of horticulture, plant cells and tissues, roots and soils, greenhouse management, watering and hydroponics, and native and invasive species. Students will engage in propagation techniques, integrated pest management (IPM), plant identification, and complete a variety of seasonal projects while on the grounds of the Buffalo and Erie County Botanical Gardens.

Program Highlights

- Daily access to the Buffalo and Erie County Botanical Gardens.
- See behind the scenes of the Botanical Gardens.
- Learn from experts in the fields of botany, greenhouse management, and landscaping.

Career Pathways

- Landscape Architect
- Plant Pathologist
- Biologist
- Botanist
- Grounds Manager
- Landscape construction
- Botanical Gardens Grower
- Horticulture Technician
- Floral Designer
- Greenhouse/Nursery Production

High School Credits

- English 12 (1 Credit)
- Participation in Government (.5 Credit)
- Economics (.5 Credit)
- Internship Credit (1 Credit)
- Plant Science (1 Credit)

Program Partnerships

The Plant Science program is held on the grounds of the Buffalo and Erie County Botanical Gardens. Students are able to study the plants, work directly with staff and plant care experts, and get behind-the-scenes access to Botanical Gardens operations.



Find out more!
Watch the
program video
by scanning the
QR code!