



Bridges Career Academy

Plant Science

Sebeka High School

Gateway to careers in horticulture and agronomy. Explore topics from the anatomy and physiology of crop plants to the diseases and disease pathogens that affect plants. Understand the composition of soils and how the soil relates to the growth and health of plants. Identify plant seeds and weeds.

Academic Courses

- Plant Science Agronomy
- Horticulture

Career Experiences

- Listen to industry speakers
- Tour local farms
- Attend the Bridges Career Exploration Day or other regional career fairs
- Participate in out-of-school experiences

Completion Standards

COMPLETE

All courses

GRADES

B ↑

ATTENDANCE



Earn a **certificate** and **green cord** at graduation



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Job Skills

In addition to having technical skills, employers expect workers in this industry to have these skills:

- Listening skills
- Be an active member of a team
- Use critical thinking and problem-solving skills
- Effectively communicate
- Work with customers



Plant Science Career Academy

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The Plant Science Academy is the gateway to a wide variety of careers in the huge and ever growing horticulture and agronomy industries today. Students explore topics from the anatomy and physiology of crop plants to the diseases and disease pathogens that affect plants. Understanding the composition of soils and how the soil relates to the growth and health of plants, and the identification of plant seeds and weeds highlight this Academy. Creativity, and the desire to work in the natural environment would make this an excellent academy choice.

ACADEMY COURSES

Plant Science Agronomy — .5 High School and/or 3 Articulated Credits

Plant Science is a class to develop knowledge and skills in basic plant growth and production. The course includes basic applied botany, how plants grow, and reproduce. Students can specialize in field crops or greenhouse horticulture. A variety of topics include; the plant kingdom, physiology of plants, soil characteristics, soil fertility and management, irrigation, vegetative growth, plant pests, major agronomic crops and cereal grains, forage grasses, and oil seeds.

Horticulture — .5 High School and/or 3 Articulated Credits

This course is designed to provide hands-on experiences in the world of plants. Selected topics include such things as; plant science related to functions and growth, plant propagation, greenhouse management, integrated pest management, container grown plants, using plants in landscaping projects, turf grasses and their establishment and maintenance, as well as vegetable gardening.

COMPLETION STANDARD

Students wishing to receive a certification must complete all courses and must earn at least B- or better average. Additionally, students must follow the Sebeka high school attendance policy.

CAREER EXPERIENCES

Students will explore and research careers with industry speakers, and attend the Bridges Career Exploration Day event and other regional career fairs. Farm tours and conducting an Agricultural Experience Presentation resulting from five hours of out of school experiences is an essential part of the Academy. Plant and market flowers and garden plants experiences as they relate to greenhouse productions are included.

JOB SKILLS

In addition to having technical skills, employers expect their workers to have other skills such as:

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CAREER OPTIONS: www.careerwise.minnstate.edu/careers

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