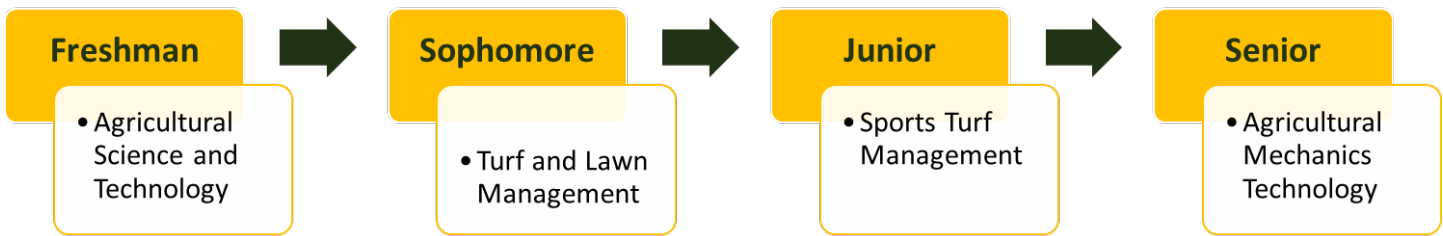


Horticulture/ Agricultural Science



Agriculture Science

The Agricultural Science and Technology course is designed to teach essential concepts and understanding related to plant and animal life including biotechnology, the conservation of natural resources, and the impact of agriculture and natural resource utilization on the environment. Emphasis is placed on the role of agriculture in our society and the importance of agriculture to the welfare of the world. Basic personal and community leadership and safety, and agricultural mechanical technology are included as a part of the instructional program. Each student is expected to design and participate in a supervised agricultural experience.

Typical learning activities include hands-on learning experiences including performing basic principles of plant, soil, and animal science; studying and modeling the significance of humankind's interrelationship with soil, water, and air; participating in FFA activities.

Turf and Lawn Management

Prerequisite: Agricultural Science

Turf and Lawn Management course is designed to teach technical knowledge and skills for entry-level positions in the turf grass industry. The principles and practices involved in establishing, managing, and maintaining grassed areas for ornamental and/or recreational purposes are studied. Typical instructional activities include hands-on experiences with analyzing problems and developing site plans for golf courses and commercial, church, and home lawns; establishing, fertilizing, irrigating, and pest management control of grassed areas; operating and maintaining machinery and equipment; participating in personal and community leadership development activities; planning and implementing a relevant school-to-work transition experience; and participating in FFA activities.

Sports Turf Management

Prerequisites: Must have successfully completed Agriculture Science and Turf and Lawn Management. Student must apply to the Horticulture/Agricultural Science STEM program.

Sports Turf Management course is designed to teach technical knowledge and skills for entry-level positions in the Sports Turf Management career field. The principles and practices involved in establishing, managing, and maintaining grassed areas for recreational purposes are studied. Typical instructional activities include hands-on experiences with analyzing problems and developing site plans for athletic fields; establishing, fertilizing, irrigating, and pest management control of grassed areas; operating and maintaining machinery and equipment; participating in personal and community leadership development activities; planning and implementing a relevant school-to-work transition experience; and participating in FFA activities.

Agricultural Mechanics Technology

Prerequisites: Must have successfully completed Agriculture Science, Turf and Lawn Management and Sports Turf. Student must apply to the Horticulture/Agricultural Science STEM program.

The Agricultural Mechanics Technology course is designed as an introductory course to the Agriculture Mechanics Career Pathway. In addition it provides development of general mechanical skills which are required in all areas of Agricultural Education. Typical instructional activities include hands-on experiences in woodworking; metal working; welding; small engine repair; basic farm and homestead improvements; participating in personal and community leadership development activities; planning and implementing a relevant school-to-work transition experience; and participating in FFA activities.