

Agriculture, Food & Natural Resources Cluster

Natural Resources & Environmental Science Pathway –

Natural Resources & Environmental Science – This major gives students an overview of agriscience, natural resources and environmental science, wildlife science and management, forestry, and/or pasture and range management and of careers available. Students are given an introduction at the ninth grade level to agriculture, natural resources, animal/plant science, and agribusiness principles and careers. Curriculum continues with in-depth studies of use and stewardship of natural resources/environment including biosecurity and waste management and habitat protection, legal regulations, and hunter safety along with harvesting wood and reforestation, surveying and GSI systems, and sustainable rangeland management practices and fire prevention. Supervised experience and FFA are an integral component in this major.

Landscape Designer (T&I) – This major prepares students as landscaper designers who plan and maintain landscaped environments including turf areas. Students will be trained in the safe use of tools and equipment, proper utilization of surveying equipment, appropriate placement of landscaping materials and estimating materials used in a landscape project. Included are design principals, wildlife conservation and environmental controls.

Landscape Maintenance Technician (T&I) – This major prepares students as landscape maintenance technicians who cultivate and maintain landscaped environments including turf areas. Students will be trained in materials estimating and design considerations and grounds keeping duties such as pruning, de-thatching, irrigation, soil preparation, mulching and seasonal applications. Included is training in operation of tools and equipment such as mowers and tractors, ZTR, verticut machines, chippers, aerators, and sprayers and spreaders.

TechConnect Agriculture, Food & Natural Resources Experience – This major is designed for 11th or 12th grade students when access to advanced career majors is not available or special needs are identified. Students are introduced to fundamental principles and applications in greenhouse/nursery/garden center technology, turf and lawn management, landscape technology, horticulture, and small engine technology. Curriculum included safety, tools, and equipment with students working under the supervision of experienced instructors in preparation for entry-level positions in the workplace or for other related career tech majors.