Subject Area - Environmental & Agricultural Systems

Subject Area	Subject Definition	Suggested Subj Area for Credit	Certificate Type	Certificate Code	Certificate Grade Levels	License Type	License Code	License Grade Levels
Environmental and Agricultural Science 010001	A foundation program for basic knowledge and skills across all disciplines and industries associated with agriculture, horticulture, mechanics and natural resources. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010104-Production Agriculture		CT - Career Technical	010104-Production Agriculture	4 - 12
Agricultural and Industrial Equipment 010201	Applies principles of engineering in power, construction technology gaining understanding of operation, maintenance, repair of power, electrical, hydraulic and mechanical systems. Communications, business principles and leadership skill development are essential.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010300-Agricultural Industrial Equipment		CT - Career Technical	010300-Agricultural Industrial Equipment	4 - 12
Agribusiness and Production Systems 010301	Applies animal, plant and environmental sciences to the production, management, marketing, distribution and processing of agronomic crops and domesticated livestock. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010104-Production Agriculture		CT - Career Technical	010104-Production Agriculture	4 - 12
			VO - Vocational-Standard	010200-Agribusiness		CT - Career Technical	010200-Agribusiness	4 - 12
Horticulture 010601	Applies principles of plant anatomy, nutrition, reproduction, genetics, health and artistic design to production, management, processing and marketing of ornamental plants, landscapes and floral designs. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010500-Horticulture		CT - Career Technical	010500-Horticulture	4 - 12
Natural Resource Management 010701	Applies science to management and protection of renewable and non-renewable resources; includes fundamentals of land use, watersheds, wildlife, fisheries and forestry. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010600-Natural Resources		CT - Career Technical	010600-Natural Resources	4 - 12
			VO - Vocational-Standard	010699-Environmental Management		CT - Career Technical	010699-Environmental Management	4 - 12
			VO - Vocational-Standard	010700-Forestry		CT - Career Technical	010700-Forestry	4 - 12
			VO - Vocational-Standard	010902-Agricultural Resources And Environmental Serv				
Animal Science and Management 010901	Applies principles of anatomy and physiology, nutrition, reproduction, health, genetics and behavior to the production, management, marketing and training of domesticated animals. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010101-Animal Production and Care		CT - Career Technical	010101-Animal Production and Care	4 - 12
			VO - Vocational-Standard	010131-Equine Science		CT - Career Technical	010131-Equine Science	4 - 12
			VO - Vocational-Standard	010191-Zoo Animal Production		CT - Career Technical	010191-Zoo Animal Production	4 - 12
Food Science and Technology 011001	Applies principles of biochemistry and product research for production and manufacture of food; involves product development, testing, grading, inspecting, processing and marketing. Communications, business principles and leadership skill development are essential to the program.	CTA	VO - Vocational-Standard	010100-Agriscience		CT - Career Technical	010100-Agriscience	4 - 12
			VO - Vocational-Standard	010400-Food Science		CT - Career Technical	010400-Food Science	4 - 12