HIGH SCHOOL PLANNER AGRICULTURE

This information should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this guide are only recommended coursework and should be individualized to meet each learner's education and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th	10th	11th			12th				
	Core Requirements	Core Requirements	Core Requirements		Core Requirements					
	English 9 Secondary Math 1 Science World Geography	Secondary Math 2 Science	English 11 Secondary Math 3 (PreCalculus) Science U.S. History		English 12 Calculus or Statistics Science American Government & Citizenship					
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ᆼ	Required Electives									
H S	PE, The Arts, CTE, Computer Tech., Health, Financial Literacy									
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	9th	10th	11th Animal Science	11th		12th				
	Animal Science, Floriculture and Greenhouse Management Equine Science	Veterinary Assistant	Equine Science Floriculture Greenhouse Manage ntro. To Horticulture	nhouse Management I		Animal Science Equine Science Floriculture & Greenhouse Management				
		Agricultural Biotechnology Equine Science	Agricultural Biotechnology Veterinary Assistant	ral Biotechnology		Intro. To Horticulture Agricultural Biotechnology Veterinary Assistant				
	GTI	STATE CTE CAREER PATHWAYS		Work Base	ed Learning	CTSO Participation				
Career Enhancement Options	Biotechnology I, II Also see Career Electives next row above for GTI classes	The state CTE Agriculture pathway has the follow Agricultural Systems Technology Natural Resource Systems Animal Systems Plant Systems Food Production and Processing Systems For more information see http://www.schools.uta		See your Career Center Coordinator for information about: Job-Shadowing Internship Apprenticeship Seminars		You are strongly advised to actively participate in Career and Technical Student Organizations. The CTSO for Agriculture is FFA (Future Farmers of America)				
Post Secondary	SLCC School of Applied Tech Welding Machinist Heavy duty Diesel Mechanic For information visit <u>www.slcc.edu/sat</u>	Agriculture, Animal Science, Vet Economics, Agriculture Busines: Management, Dairy Science, Pla Education, Agribusiness Techno	Tech Training/ AS Degree (Snow) Agriculture, Animal Science, Veterinary Science, Agriculture Economics, Agriculture Business, Farm and Ranch Management, Dairy Science, Plant Science, Agriculture Education, Agribusiness Technology (One Year Certificate) For more information visit: www.snow.edu		College/University (USU) Agriculture, Animal Science, Bio-Veterinary Science, Agriculture Economics, Agriculture Business, Farm & Ranch Management, Dairy Science, Plant Science, Agriculture Education, Plants, Soils & Biometeorology, Crop Science, Agronomy, Horticulture, Landscape Maintenance & Construction, Turf grass Management, Environmental Science/Water Science, Biotechnical Science. For information visit: www.usu.edu					

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Sample Career Specialties / Occupations	Agricultural Sales • Agricultural Communications Specialists • Business-Educators • Food Scientists • Meat Processors-Toxicologists • Biochemists-Nutritionists-Dieticians • Food Brokers-Food Inspectors • Meat Cutters-Meat Graders • Meat Science Researchers • Food Meal Supervisors • Cheese Makers • Microbiologists • Produce Buyers • Bacteriologists • Food & Drug Inspectors • Bioengineers • Biochemists • Food Processors • Storage Supervisors • Fieldman • Quality Control Specialists	Bioinformatics Specialists • Plant Breeders and Geneticists • Biotechnology Lab Technician • Soil & Water Specialists • Crop Farm Managers • Agricultural Educators • Plant Pathologists • Aquaculturalists • Sales Representatives • Botanists • Tree Surgeons • Education & Extension Specialists • Agricultural Journalists • Commodity Marketing Specialists • Grain Operations Superintendents • Custom Hay/Silage Operators • Forest Geneticists • Golf Course Superintendents • Greenhouse Mangers • Growers • Farmers • Ranchers	Agricultural Educators • Livestock producers • AI Technicians-Aquaculturalists • Animal Caretakers-Poultry Managers • Equine Managers-Veterinarians • Veterinary Assistants-Feedlot Specialists • Animal Scientists • Embryo Technologists • Livestock Buyers • Feed Sales Representatives • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Dairy Producers• Livestock Inspectors • Feed Sales Specialists • Animal Health Salespersons • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians • Pet Shop Operators • USDA Inspectors	Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension Engineering Specialists • Heavy Equipment Maintenance Technicians • Recycling Technicians • Waste Water Treatment Plant Operators • Equipment/Parts Mangers • Welders • Machinists • Communication Technicians • Agricultural Applications Software Developers/Programmers • Database Administrators • Computer Service Technical Support Technicians • Information Lab Specialists • GPS Technicians • Remote Sensing Specialists	Cartographers • Wildlife Managers • Range Technicians • Ecologists Park Mangers • Environmental Interpreters • Fish and Game Officers Loggers • Forest Technicians • Log Graders • Pulp and Paper Manager Soil Geology Technician • Geologists • Mining Engineers Fisheries Technicians • Water Monitoring Technician • Hydrologists • Fish Hatchery Manager Commercial Fishermen • Fishing Vessel Operators • Vessel Crew	Pollution Prevention and Control Managers ● Pollution Prevention and Control Technicians ● Environmental Sampling and Analysis Scientists/Technicians ● Health and Safety Sanitarians ● Health and Safety Sanitarians ● Environmental Compliance Assurance Managers ● Hazardous Materials Handlers ● Hazardous Materials Technicians / Managers ● Water Environment Managers ● Water Quality Managers ● Water Water Managers ● Toxicologists ● Solid Waste Disposers / Recyclers ● Solid Waste Technician ● Solid Waste Managers ● Solid Waste Specialists	Salesperson • Sales Manager • Banker/Loan Officer • Field Representative for Bank, Insurance Company or Government Program • Farm Investment Manager • Agricultural Commodity Broker • Agricultural Economist • Farmer /Rancher/Feedlot Operator • Farm Manager • Livestock Rancher / Breeder • Dairy Herd Supervisor (DHIA) • Agricultural Products Buyer • Animal Health Products Distributor • Livestock Seller • Feed and Supply Store Manager • Produce Commission Agent • Ag Lenders • Agricultural Chemical Dealer • Field Service Representative • Chemical Sales Representative
Pathways	Food Products and Processing Systems (Food Processing and preserving, Packaging, Distribution, Government monitoring & regulation)	Plant Systems (Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.)	Animal Systems (Large animals, small animals, wildlife animals, and research animals)	Power, Structural & Technical Systems (Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.)	Natural Resources Systems (Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.)	Environmental Service Systems (Pollution Prevention, Water & Air Quality, Hazardous Materials, Solid Waste Management, Health & Safety Sanitation, etc.)	Agribusiness Systems (Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.)

