



Agriculture and Natural Resources Industry Sector

Agriculture is one of California's largest and most vital industries, which generates about \$32 billion in products and more than \$125 billion of economic impact each year. Ten percent of California workers are engaged in agriculture and related occupations. Because the demand for agricultural specialists throughout the state in both urban and rural areas is high, there are more job openings than there are qualified applicants. Within the Agriculture and Natural Resources pathways, workers in some of the fastest-growing and/or highest-wage occupations in California include agricultural marketing and sales personnel, agricultural engineers, laboratory and research technicians, animal reproduction specialists, environmental scientists, landscape and turf managers, and pest management specialists.

Students in the Agriculture and Natural Resources industry sector are engaged in an instructional program that integrates academic and technical preparation, with a focus on career awareness, career exploration, and skill preparation in seven pathways. The pathways emphasize real-world, occupationally relevant experiences of significant scope and depth in Agricultural Business, Agricultural Mechanics, Agriscience, Animal Science, Forestry and Natural Resources, Ornamental Horticulture, and Plant and Soil Science. Integral components of classroom and laboratory instruction, supervised agricultural experience projects, and leadership and interpersonal skill development prepare students for continued training, advanced educational opportunities, and entry into a career.

Agriculture and Natural Resources Industry Sector Pathways:

- *Agricultural Business*
- *Agricultural Mechanics*
- *Agriscience*
- *Animal Science*
- *Forestry and Natural Resources*
- *Ornamental Horticulture*
- *Plant and Soil Science*

Entry Level Careers

(with high school diploma)

Nursery Worker
 Forestry Aide
 Crop Inspector
 Irrigator
 Milker
 Park Aide
 Gardener/Groundskeeper
 Feeder
 Ag Supplies Warehouse
 Ag Service Technician Trainee
 Ag Equipment Operator
 Ag Business Clerk
 Farmworkers and Laborers, Crop

Technical Level Careers

(with AA or AS degree or certificate)

Land Use Planning Technician
 Field Representative Technician
 Animal Health Technician
 Greenhouse Grower/Manager
 Soil Conservation Technician
 Landscape Designer
 Forestry Technician
 Artificial Inseminator
 Ag Sales and Service Technician
 Ag Import/Export Technician
 Ag Equipment Service
 Ag Equipment Set-up Foreperson
 Farm Equipment Mechanics

Professional Level Careers

(with BS or BA degree)

Soil/Water Manager
 Agronomist
 Country Planner/Landscape
 Animal Nutritionist
 International Ag Pest Control Advisor
 Veterinarian
 Plant/Animal Geneticist
 Forester/Ranger
 Architecture
 Ag Teacher/Farm/Home Advisor
 Ag Research/Developer
 Ag Engineer
 Ag Business Owner/Operator

College: _____
 High School(s): _____

Sector: _____
 Pathway: _____
 Program: _____

	Grade	English	Math	Science	Social Studies	Required Courses			Grade 9-12 Dual Enrollment Options
						Recommended Elective Courses	Other Elective Courses	CTE Courses	
Secondary	9								
	10								
	11								
	12								
Postsecondary	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								

Required Courses:
 Recommended Required Courses:
 Career Education Courses:
 Credit-Based Transition Programs (e.g., Dual Enrollment, Articulated Courses, 2+2+2)
 Assessments, Advising, or Additional Preparation During Summer Breaks