



Pathway: Plant Systems

Plan of Study: Plant Production

Career Goal (O*Net Code): Agricultural Technician (19-4011), Agricultural Crop Farm Managers (11-9011), Biotechnology Technician (19-4021)

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	Grade	Core Academic Courses*:	Suggested Electives:
		9 th	Algebra I, Earth Science, P.E. / Health, English I, Basic Computer Apps, Art
10 th	Career Path Courses:	Agriculture Science I	Suggested Electives: Geometry
	Core Academic Courses*:	World Geography, English II, Biology I, Algebra II, Multi-media	
11 th	Career Path Courses:	Agriculture Science II	Suggested Electives: College Algebra
	Core Academic Courses*:	English III, U.S. History, Chemistry, Biology II, Civics	
12 th	Career Path Courses:	Advanced Agriculture Sciences, and or Plant Science, Agriculture Economics, Agriculture Communications	Suggested Electives: Calculus Multimedia
	Core Academic Courses*:	Physics, Trigonometry, English IV, College Public Speaking, College Prep	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Dual Enrollment Ag Econ 102 (Transferrable for 2 and 4 year degree path)
	Industry Recognized Certificate(s) or License(s): Certified Crop Applicators License

Postsecondary Education Opportunities	Degree/Certificate	Postsecondary Programs Available	Institutions	Entrance Exams/Requirements
		Certificate	Lab Tech, Certified Nursery Professional	CCD, ACC, FRCC, CMC
Associate Degree	Applied Science, Biotechnology, Horticulture and Crop Science, Agricultural Business, Farm and Ranch Management	NJC, CCD, ACC, CMC, PPCC, PCC, FRCC	Accuplacer Testing, High School Diploma or GED	
Bachelor Degree	Agricultural Engineering, Biotechnology, Agronomy, Entomology, Integrated Pest Management, Plant Science, Weed Science, Soil Science	CSU, Mesa State, Western State College, OPSU, Fort Hays	Higher Education Admission Requirements	
Graduate Degree	Agronomy, Epidemiology, Biotechnology, Biological Science, Plant Breeding, Plant Protection, Soil Science, Plant Pathology	CSU, CU DU	GMAT	

Cluster Overview: The **Agricultural, Food and Natural Resources** cluster focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

Extended Learning Experiences		
Curricular Experiences: Colorado FFA Association Agriscience Fair Competition Agriscience Student Competition Agronomy Competition Land Classification	Extracurricular Experiences: Intel Math, Science and Engineering Fair CSU Summer Agronomy Camp Farm Bureau Exchange Program Camp Rocky	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships	Program Accreditation and/or Professional Association(s): Post Secondary Agricultural Students Association (PAS) American Association of Lab Technicians American Society for Microbiology American Society for Agricultural Engineering American Society of Agronomy Colorado Organic Producers Association	
Service Learning Experiences: Colorado FFA, 4-H, Habitat for Humanity, Community Gardens, Landscaping/ Lawn Care, Crop Demonstration Plots, Boy Scouts of America Girl Scouts of America, Youth Council		
Career Options:		Salary Range:
Certificate	Laboratory Technician/Assistant, Farmer/Rancher, Pesticide Applicator, Insect Scout	\$
Associate Degree	Biotechnology Technician, Biochemical Technician, Forensic Science Technician, Environmental Technician, Animal Health Tech, Farm/ Ranch Manager, Landscape Technician	\$\$
Bachelor Degree	Biomedical Engineer, Research Associate, Animal Repro Technician, Biotech Production Associate, Certified crop Advisor, Agricultural Researcher, Chemical Salesperson, Cooperative Extension Agent	\$\$\$-\$\$\$\$
Graduate Degree	Epidemiologist, Biochemist, Veterinary Scientist, Forensic Scientist, Plant Scientist, Soil Scientist, Plant Breeder, Range Scientist, State Extension Agronomist	\$\$\$\$-\$\$\$\$\$

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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