



# Agriculture

*Learn how to map your career and find path to success!*



## Why Agriculture?

Agriculture will have to be one of the most innovative and fast paced industries in order to produce twice as much food on less land.

Because the demand for agricultural specialists throughout the nation in both urban and rural areas is high, there are more job openings than there are qualified applicants. Within the Agriculture sector are some of the fastest-growing and/or highest-wage occupations such as agricultural marketing and sales personnel, finance, agricultural engineers, laboratory and research technicians, animal reproduction specialists, environmental scientists, landscape and turf managers, and pest management specialists or you can manage family or corporate farm operations.

Agricultural jobs are available at the entry level for people with short-term training or on the job training. However, jobs paying more usually require a 2 and/or 4 year degree.

**Why** consider agriculture as career in Nevada? Agriculture is the world's largest economic sector. It may sound basic, but people like to eat. There will be about 3 billion more people who like to eat by the time you are ready to retire

**How to learn more:**

- Explore this and other industries at [www.nvcis.intocareer.org](http://www.nvcis.intocareer.org)
- Find out if a job will pay your bills using the Reality Check at [www.nvcis.intocareers.org](http://www.nvcis.intocareers.org)
- Search for all the training programs in Nevada, schools and other information regarding career or education options in Nevada by exploring <http://www.nevadayouth.org/>

## How do I get started in Agriculture?

- » Keep your grades up in high school. Take math, technology and science classes.
- » Explore careers you might be interested in at Connect with NCIS at [www.nvcis.intocareers.org](http://www.nvcis.intocareers.org)
- » Explore careers and employment possibilities at [www.NevadaYouth.org](http://www.NevadaYouth.org).
- » Do you know anyone who works in agriculture industry? Interview him/her and ask if you can visit his/her workplace.
- » Make a plan based on your interests. How much training do different jobs require? Where can you find the training you need? How will you pay for it? What steps can you take to get you closer to your goal?

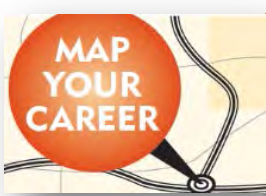
## Career Paths in Agriculture:

Education Level	Hourly Wage Ranges* (25 <sup>th</sup> – 75 <sup>th</sup> percentile)	Agriculture Mechanical Technology	Animal & Medical Science	Ag. Business Systems & Natural Resources Management	Horticulture
HIGH LEVEL	Veterinarians \$33.18 - \$60.93	Agriculture Engineer, Equipment Parts Manager	Animal Geneticist, Animal Scientist, Reproductive Physiologist, Veterinarian	Ag. Economist, Farm Manager, Ag. Communication Specialist, Wildlife & Park Manager	Landscape Architect & Designer, Botanist, Plant Pathologist, Plant Breeder & Geneticist, Floral Shop Manager
MID LEVEL	Veterinary Technologists & Technicians \$11.60 - \$19.19	Machinist, Welder, Heavy Equipment Maintenance Mechanic	Biology Lab Technician, Embryo Transfer Technician, Veterinary Technician	Sales Manager, Crop Insurance Adjuster, Education & Ext. Specialist, Fish & Game Officer	Turf Farm Manager, Plant Researcher, Floral Shop Supervisor, Floral Production Supervisor
ENTRY LEVEL	Veterinarian Assistant \$9.21 - \$16.00	Tractor Technician, Farmer, Concrete Finisher, Heavy Equipment Technician	Animal Caretaker, Veterinary Assistant	Surveyor, Legislative Intern, Range Tech	Golf Course Maintenance Technician, Arborist, Biology Lab Tech, Floral Designer

\*For info on wage ranges visit – Nevada Workforce Informer at <https://nvcis.intocareers.org>.

**Note:** The colors for career path aligns with the CTE classes available in the school.

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## Classes to take for different Programs of Study in Agriculture:

High School	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	Post Secondary
» Base course schedule that students will take in high school:	English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College
	Algebra I	Geometry	Algebra II	Senior Level Math Course	
	Biology	Chemistry or Geoscience	Junior Level Science Course	Elective	
	Health / Computer Literacy	World History	US History	US Government	
	Physical Education	Physical Education	Foreign Language or Elective	Foreign Language or Elective	

### » Recommended classes for selected career paths in Agriculture:

					Industry Recognized Certifications:
Ag. Mechanical Engineering Technology (MET) Equipment Fabrication Systems:	AgMET I	AgMET II	AgMET Fabrication Systems	AgMET Adv. Studies	CareerSafe, AWS Certified Welder
AgMET Power Systems:	AgMET I	AgMET II	AgMET Power Systems	AgMET Adv. Studies	CareerSafe, AWS Certified Welder
AgMET Structural Systems:	AgMET I	AgMET II	AgMET Structural Systems	AgMET Adv. Studies	CareerSafe, AWS Certified Welder
Animal Sciences:	Animal Science I	Animal Science II	Animal Science	Animal Science Adv. Studies	Beef Quality Assurance; Youth Pork Quality Assurance
Equine Sciences:	Agricultural Science I	Agricultural Science II	Equine Science	Equine Science Adv. Studies	
Veterinary Sciences:	Agricultural Science I or Veterinary Science I	Agricultural Science II or Veterinary Science II	Veterinary Science III	Veterinary Science Adv. Studies	
Ag. Business Systems:	Agriculture Science I	Agriculture Science II	Agriculture Business	Agriculture Business Adv. Studies	
Agriculture Leadership, Community & Policy:	Agriculture Science I	Agriculture Science II	Agriculture LCP	Agriculture LCP Adv. Studies	Certified Parliamentarian
Natural Resources & Wildlife:	Agriculture Science I	Agriculture Science II	Natural Resources & Wildlife Mgmt.	Natural Resources & Wildlife Mgmt. Adv. Studies	Hunter Safety Card
Environmental Management:	Environmental Management I	Environmental Management II	Environmental Management III	Environmental Mgmt. Adv. Studies	
Landscape Design & Mgmt:	Horticulture or Ag. Science I	Landscape Design I	Landscape Design II	Landscape Design Adv. Studies	Pesticide Applicator License, Landscape Ind. Certified Tech. and Lawn Care Tech
Ornamental Horticulture/Green House:	Ag. Science I or Horticulture Science	Plant Science or Ornamental Horticulture	Greenhouse Management	Greenhouse Mgmt. Adv. Studies	Worker Protection Handler Pesticide Application License
Floriculture Design & Mgmt:	Ag. or Horticulture Science	Plant Science and Ornamental Horticulture	Floriculture	Floriculture Adv. Studies	Worker Protection Handlers Card, Certified Floral Designer

This program of study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. For detail information please visit: <http://cteae.nv.gov/>

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