



# Agriculture Pathways

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### Career Path – Natural Resources Agriculture – Nature Path

You love the land and all the earth's natural resources. Turn that passion into a career! From farming to alternative energy to grape growing, we have the experts to help you thrive in your career and beyond.

#### Career Cluster 1 – Agriculture, Food and Natural Resources

The Agriculture career cluster prepares learners for 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 or resources.

 **Associate's Degree or Technical Certificate**

 **Bachelor's Degrees**

 **Master's, PhD or Professional Degree**

*\*High School Diploma needed\**

#### Career Pathway – Agribusiness Systems

 **Agriculture Education Teacher**

 **Farmers, Ranchers & Other Agricultural Managers**

 **Landscape Architects**

 **Recycling Coordinators**

#### Career Pathway – Animal Systems

*\*Fishers & Related Fishing Workers\**

*\*Pest Control Workers\**

 **Veterinarians**

 **Veterinary Assistants & Laboratory Animal Caretakers**

 **Zoologists & Wildlife Biologists**



## Career Pathway – Food Products and Processing Systems

-  Biochemists
-  Farmers & Ranchers
-  Food Scientists & Technologists
-  Production Supervisors
-  Wholesale Food Purchasers

## Career Pathway – Natural Resources and Environmental Service Systems

-  Environment Science & Protection Technicians
-  Environmental Scientists & Specialists

## Career Pathway – Plant Systems

-  Foresters
-  Horticulture/ Irrigation/ Natural Resources
  - \*Landscaping & Groundskeeping Workers\**
  - \*Tree Trimmers & Pruners\**

## Career Pathway – Power, Structural & Technical Systems

- \*Agricultural Equipment Operators & Inspectors\**
-  Computer User Support Specialist
-  Veterinary Technologists & Technicians

### Related Majors:

Biology

Design

Education

Botany

Earth & Space Sciences

General Horticulture

Chemistry

Ecology

Geology

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## Here is what Bellevue College Offers:

Bellevue College offers directed student's opportunities in [Sustainable Business Practices program](#), Green Sustainable Design, Environmental Science and more.

Bellevue College Offers: (L indicates Lab Component)

- [Botany 110](#) – Introduction Plant Biology (6 CR) L – Classified for Non-Majors.
- [Botany 113](#) – Plant Identification and Classification (6 CR) L – Classified for Non-Majors.
- [Botany 120](#) – Introduction to Mycology (6 CR) L – Classified for Non-Majors.
- [Botany 199](#) – Individual Studies in Botany (V1-5 CR) – May be repeated for a max of 15 CR. Permission of Instructor/ Research & Independent study.
- [Interdisciplinary 115](#) – Bite Me Consumption and Sustainability in the US (11 CR) – 2 courses combo.

## Explore Future Farms of America:



**FFA - “Future Farmers of America”** was founded by a group of young farmers back in the 1928. Their mission was to prepare future generations for the challenges of feeding a growing population. They taught us that agriculture is more than planting and harvesting – it’s a science, it’s a business and it’s an Art. School-based agricultural education in the United States consists of three principles, integral core components that include:

- 1) Contextual, inquiry-based instruction and learning through an interactive classroom and laboratory.
- 2) Premier leadership, personal growth and career success through engagement in FFA; and
- 3) Experiential, service and/or work-based learning through the implementation of a supervised agricultural experience program.

Each degree has its own set of requirements:

**Discovery – Earned in middle school.**

**Greenhand – First degree you can earn in high school.**

**Chapter – Second degree earned in high school.**

Both Greenhand and Chapter are given by chapter.

**State FFA Degree – Third degree given by the state association at the State FFA Convention**

Each state is limited to a maximum number of degree recipients.

Requirements for the state FFA Degree include:

- 1) Must hold the Chapter FFA Degree.
- 2) Must be an active member for at least 2 years.
- 3) Complete at least 2 years of agriculture courses.
- 4) Earn and productively invest at least \$1000, or work at least 300 hours outside of class time in an SAE program.
- 5) Complete at least 25 hours of community service (includes chapter degree requirements).
- 6) Be able to demonstrate leadership ability by:
  - Performing 10 procedures of parliamentary law.



- Giving a six-minute speech on FFA or an agriculture topic.
- Serving as an officer, committee chairperson or participating committee member.
- Having a satisfactory scholastic record.
- Participating in the Program of Activities (POA).
- Participating in at least five FFA activities above the chapter level.

**American – Final degree to be earned after graduation. Given at National FFA Convention**

- 1) Must hold the State FFA Degree.
- 2) Be an active member for at least 3 years or complete the program of agricultural education offered at the school last attended.
- 3) Complete at least 50 hours of community service (Includes chapter and state degree requirements)
- 4) Complete at least 3 years of agriculture courses.
- 5) Graduate from high school at least 12 months prior to receiving the degree.

A degree in agriculture gives you the knowledge and skills to manage agricultural businesses, or work in the areas of agricultural sales, food production and farming journalism.

Career	Farm Manager	Food Scientist	Agricultural Journalist
Education Requirements	High school diploma	Bachelor's degree	Bachelor's degree
Projected Job Growth (2012 - 2022)	2% decline*	5% increase*	9% decline*
Median Salary (2014)	\$64,170 annually*	\$65,840* annually*	\$36,360 annually*

Source: \*U.S. Bureau of Labor Statistics

**<sup>1</sup>Here are 5 jobs perfect for an Agricultural graduate:**

**1) Agricultural Sales – Agronomy Sales**

Agricultural sales professional sell products related to food and crop production. Jobs can vary from selling equipment, seed, fertilizer, crop protection, and many other services. With the growth of agriculture, sales representatives are thought to be high in demand for many companies in the industry.

**2) Agricultural and Natural Resources Communications**

This field offers the opportunity to agricultural graduate to work in print and broadcast journalism. The job role typically ranges from magazine and newspaper staff, press spokesperson, public relations and educator etc. According to agricultural experts, such jobs are expected to increase by at least 24 percent by 2018.

**3) Veterinarian and/or Vet-tech**

The agricultural industry needs veterinarians to keep farm animals (livestock) healthy. The job involves performing medical tests in laboratory environment for treatment and the purpose of diagnosis. The job may also include preparation of vaccines for prevention of disease, assisting a veterinarian during surgery or fertilization.

**4) Agricultural and Food Science Technicians**

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<sup>1</sup> 5 Jobs You Can Obtain With a Degree in Agriculture



Food scientists have been in great demand since more than a decade and are expected to only grow, no pun intended. The job of food scientists is to improve the quality of food products and create new ones by researching and experimenting with new combinations using food processing techniques, food sources and raw ingredients.

### 5) Horticulturists

Horticulture and agriculture are related fields. This job requires agricultural graduates to focus their skills and experience in growing and selling highly marketable fruits, vegetables and flowers. The job role ranges from landscape designers, nursery managers, forest expert to florist.

To see the many jobs and opportunities the agriculture industry has to provide visit [www.aghires.com](http://www.aghires.com).

## Best Agricultural Science Colleges in Washington:

[University of Washington](#) – Seattle Campus offers (8) Agricultural Science Degree Programs at a large public University in a large city.

[Washington State University](#) – This large public university offers (18) Agricultural Science Degree Programs at a large public university in a far-away town.

[The Evergreen State College](#) - This medium sized public university offers a Master of Environmental Studies (MES) and offers an Organic Farm appropriate for small-scale production and learning. Internships, Assistantships and Sustainability Fellowships offered can offset the cost of your degree.

Evergreen’s Master of Environmental Studies (MES) degree is a two- or three-year evening degree incorporating natural sciences, social sciences, public policy, and environmental humanities.

[South Seattle College](#) – This medium sized public university offers (1) Agricultural Science Degree Program in a large city.

Filter:	Degree Levels	Program Length	Control Type		
School Logo	School Name	Average tuition	Student Teacher Ratio	Enrolled Students	
	<b>University of Washington-Seattle Campus</b> Seattle, WA	\$ \$ \$ \$ \$	12 : 1	45,408	
	<b>Washington State University</b> Pullman, WA	\$ \$ \$ \$ \$	20 : 1	29,686	
	<b>The Evergreen State College</b> Olympia, WA	\$ \$ \$ \$ \$	24 : 1	4,190	
	<b>South Seattle College</b> Seattle, WA	\$ \$ \$ \$ \$	40 : 1	6,076	

<sup>2</sup> Universities.com



### <sup>3</sup>Other Schools in the area:

## King – Snohomish Area

### [Bastyr University](#)

- Holistic Landscape Design (Certificate)

### [Edmonds Community College](#)

- Horticulture-Landscape Design (Associate Degree)
- Horticulture-Landscape Horticulture (Certificate)
- Horticulture-Sustainable Landscape Management (Associate Degree)

### [Lake Washington Institute of Technology](#)

- Environmental Horticulture (Certificate, Associate Degree)

### [South Seattle College](#)

- Landscape Horticulture (Certificate, Associate Degree)
- Landscape Horticulture-Landscape Design & Construction (Certificate, Associate Degree)
- Landscape Horticulture-Sustainable Landscape Management/Maintenance (Certificate, Associate Degree)

## Spokane Area

### [Spokane Community College](#)

- Agricultural Business - Spray Technician (Certificate)
- Landscape Management – Arboriculture/Urban Forestry (Certificate, Associate Degree)

### [Lower Columbia College](#)

- Individual Certificate Program-Public Works maintenance (Certificate)

## East Side Area

### [Washington State University](#)

- Integrated Plant Sciences – Variety of Bachelor of Science Focuses offered

### [Central Washington University](#)

- Food Science - Craft Brewing (Certificate)

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<sup>3</sup> Washington Career Bridge

