

Current Agricultural Education Opportunities in Washington State

Prepared for: WSDA Future of Farming Project

Survey and listening participants were concerned that there was an agriculture education gap in the industry system. This list was developed in June 2008 to provide readers with a sense of what is available in the current education system and is not meant to be exhaustive.

WSU 4-Year Degree Program

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
Agriculture and Food Systems	In each major, emphasis is placed on gaining a solid background in the agricultural sciences, including learning to work with and in the complexity of agriculture and food systems.	B.S. Agriculture Food Systems -Major: Ag Business and Technology Systems ---Option: Agri-Food Production Management ---Option: Agri-Food Business Management ---Option: Technology ---Option: Communications -Major: Agriculture Education -Major: Organic Agriculture Systems -Major: Pest Management Systems -Major: Plant and Soil Systems ---Option: Cropping Systems ---Option: Soil Management ---Option: Horticulture Systems	Ag Business and Tech: jedurfey@wsu.edu Ag Education: kleenem@wsu.edu Organic Agriculture: Reganold@wsu.edu Pest Management: glpiper@wsu.edu Soils: cperillo@wsu.edu Plant Systems: ullrich@wsu.edu Horticulture: kathleenwilliams@wsu.edu	www.afs.wsu.edu
Animal Science		B.S. Animal Science ---Option: Pre-Veterinary B.S. Neuroscience ---Option: Pre-Veterinary B.S. Zoology ---Option: Pre-Veterinary/Animal Care B.S. Animal Science ---Option: Production Management	Animal Science: jaimie@wsu.edu	www.ansci.wsu.edu
Community and Rural Sociology	Community studies, offered by WSU's Department of Community and Rural Sociology, is designed to help students increase their knowledge of broad forces affecting community change.	Minor: Community Studies -Offers contributing classes to AFS Degrees	crs@wsu.edu	www.crs.wsu.edu
Crop and Soil Science		B.S. Crop Sciences --Option: Cropping Systems --Option: Business and Industry --Option: Turf Management --Option: Crop Science/Biotechnology Minor: Crop Sciences	cssinfo@wsu.edu	www.css.wsu.edu
Soil Sciences	The Department of Crop and Soil Sciences at Washington State University serves the Land Grant tradition by offering nationally competitive undergraduate and graduate education programs, conducting fundamental and applied plant and soil research, and extending the science of our disciplines to serve the public.	B.S. Soil Sciences --Option: Environmental Soil Science --Option: Soil Management --Option: Sustainable Agriculture ---Emphasis: Precision Farming Minor: Soil Sciences	cssinfo@wsu.edu	www.css.wsu.edu
Entomology		B.S. Biology-Emphasis: Entomology	entom@wsu.edu	entomology.wsu.edu
Bi-State School of Food Science	Food science students learn how to convert food commodities into high quality food products that are safe and nutritious.	B.S. Food Science and Human Nutrition Minor: Food Science	food.science@wsu.edu	www.sfs.wsu.edu
Department of Horticulture and Landscape Architecture		B.S. Horticulture --Option: Environmental Horticulture --Option: Fruits and Vegetables --Option: Viticulture and Enology	hortla@wsu.edu	www.hortla.wsu.edu
School of Economic Sciences		B.S. Agribusiness Economics and Management B.S. Agricultural Economics and Management	kettwig@wsu.edu	www.ses.wsu.edu

WSU Graduate and Post-Graduate Agriculture Degrees and Programs

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
School of Economic Sciences		Ph. D. Agriculture Economics	kettwig@wsu.edu	http://www.ses.wsu.edu/graduatestudies/G_PhDProg.htm
Agriculture and Food Systems		M.S. Agriculture --Thesis Option --Non-Thesis Option	academic@cahnrs.wsu.edu	www.msag.wsu.edu
Animal Sciences		M.S. Animal Science Ph. D. Animal Science	jaimie@wsu.edu	http://www.ansci.wsu.edu/Graduate/graduate.asp
Crop Sciences		M.S. Crop Sciences Ph. D. Crop Sciences	marshdi@wsu.edu	http://css.wsu.edu/Student_Info/graduate_programs.htm
Entomology		M.S. Entomology Ph. D. Entomology	entom@wsu.edu	
Food Science		M.S. Food Science Ph. D. Food Science	food.science@wsu.edu	http://www.sfs.wsu.edu/graduateprogram/index.html
Horticulture		M.S. Horticulture Ph. D. Horticulture	hortla@wsu.edu	http://hortla.wsu.edu/hortgrad/index.html
Molecular Plant Sciences		M.S. Molecular Plant Sciences Ph. D. Molecular Plant Sciences	molecular-plants@wsu.edu	http://www.wsu.edu/molecular-plants/
Plant Pathology		M.S. Plant Pathology Ph. D. Plant Pathology	plpath@mail.wsu.edu	http://plantpath.wsu.edu/students/prostudents.htm
Soil Sciences		M.S. Soil Sciences Ph. D. Soil Sciences	marshdj@wsu.edu	http://css.wsu.edu/Student_Info/graduate_programs.htm
Viticulture and Enology		M.S. Viticulture and Enology Ph.D. Viticulture and Enology	andrewsm@wsu.edu	http://wine.wsu.edu/grad.html

WSU Tri-Cities 4-Year Degree Program

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
Horticulture	Areas of learning in Horticulture, with emphasis on Viticulture and Enology, include the science and technology of plant propagation, cultural practices, genetic improvement, harvesting, storage, processing, marketing, and other specific aspects of grape growing and winemaking.	B.S. Horticulture --Option: Viticulture and Enology	cooker@wsu.tricity.edu	http://www.tricity.wsu.edu/viticulture/index.html

Other 4-year Colleges and Universities University of Washington Degree Programs

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
Aquatic and Fishery Sciences	The School of Aquatic and Fishery Sciences (SAFS) encompasses multi-disciplinary programs at the interface between the traditional fields of natural history, environmental biology, and natural resource management. Primary foci are the management of sustainable fisheries of commercially important species; biocomplexity and ecosystem-based management; and sustainable aquaculture.	B.S. Aquatic and Fishery Sciences Minor: Aquatic and Fishery Sciences M.S. Aquatic and Fishery Sciences Ph.D. Aquatic and Fishery Sciences	safsdesk@u.washington.edu	http://www.washington.edu/students/genecat/academic/fisheries.html

Evergreen State College Areas of Study

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
Food, Health and Sustainability	This interdisciplinary exploration of food will take a broad ecological systems approach as it examines the biology and chemistry of food, while also incorporating political, historical and anthropological perspectives.	Area of Study: Food, Health and Sustainability	rosemeym@evergreen.edu	http://www.evergreen.edu/catalog/2008-09/programs/foodhealthandsustainability
Food, Place and Culture	Food is a central element in social exchange and definition of self and community. Perhaps even more than language, food is a marker of identity and culture. How have particular regional and national cuisines been shaped by local and global geography and history? For example, what was Italian food before the tomato's arrival from the Americas? How are local food traditions being endangered by globalization?	Area of Study: Food, Place and Culture	rosemeym@evergreen.edu	http://www.evergreen.edu/catalog/2008-09/programs/foodplaceandculture
Practice of Sustainable Agriculture	This program integrates the theoretical and practical aspects of small-scale, diversified organic farming in the Pacific Northwest	Area of Study: Practice of Sustainable Agriculture	rosemeym@evergreen.edu	http://www.evergreen.edu/catalog/2008-09/programs/practiceofsustainableagriculture
Survey of the Wine Industry Across the Americas	The primary aim of this program is to explore the wine industry in the Americas using history, geography, political economy, and economics as an exemplar of the interactions of physical and human processes in time and space.	Area of Study: Survey of the Wine Industry Across the Americas	gilbertj@evergreen.edu	http://www.evergreen.edu/catalog/2008-09/programs/surveyofthewineindustryacrosstheamericas

Central Washington University

Program/Department	Mission/Purpose	Degrees Offered	Contact	Website
World Wine Program	The World Wine Program offers wine-related courses, events, and industry training.	Minor: Wine Trade and Tourism Certificate: Wine Trade Professional	mummaa@cwu.edu	http://www.cwu.edu/wine-education/wwp/

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Community and Technical Colleges

Institution	Location	Mission/Purpose	Educational Offerings	WebSite
Bellingham Technical College	3028 Lindbergh Avenue Bellingham, WA 98225	The Fisheries Technology program prepares students for employment in a variety of fisheries occupations with emphasis on fish culture and aquaculture.	AS: Fisheries Technology Certificate: Fisheries Resources	http://www.btc.ctc.edu/
Big Bend Community College	7662 Chanute Street NE, Moses Lake, WA 98837	This program is designed to give students a strong foundation in the agricultural fields and completes WSU's general education requirements. Students completing this degree will be prepared to begin upper division work in agriculture at WSU.	AAS: Agriculture- Professional/Technical Transfer	www.bigbend.edu
Centralia Community College	600 Centralia College Blvd., Centralia WA 98531-4099	To provide an educational program that meets the needs of all types of commercial farmers and ranchers in Southwest Washington.	Farm and Ranch Recordkeeping Program (No Degree)	www.centralia.edu
Clark College	1933 Fort Vancouver Way Vancouver, WA 98663	The courses offered at Clark College include greenhouse experience and outdoor plant experience. The program includes business management, greenhouse operations, horticulture therapy, irrigation systems, landscape design, landscape maintenance, nursery operations, park management, turf management, and small engine repair.	AAS: Agriculture-Horticulture Certificate: Nursery Operations	www.clark.edu
Clover Park Technical College	4500 Steilacoom Blvd. SW Lakewood, WA 98499	Designed to educate and prepare successful graduates for employment in the "Green Industry." The horticulture option draws on the strengths of both academic and workplace learning providing a professional education in a range of specialty areas relating to managing a greenhouse, field, or nursery operation, as well as identifying and working with ornamentally important plants.	Certificate: Production Horticulture AAT: Landscape Management-Horticulture	www.cptc.edu
Columbia Basin College	2600 North 20th Avenue Pasco, WA 99301	The Agriculture program at CBC is designed to focus on research and development, outreach, and education that will prepare an ag-ready workforce. Courses shaped by local industry leaders, provide students with a deeper understanding of the science of modern agriculture, and the food and fiber industry.	AA: Agri-Business Prof Dev: Soils, Irrigation, Entomology and Potato Production for Production Ag and related industries Leadership dev. in partnership with the Agriculture and Forestry Education Foundation "Hispanic Farm Worker to Farm Owner Program" Custom agriculture education program for food processors	http://www.columbiabasin.edu/home/index.asp?page=1772

Edmonds Community College	20000 68th ave W Lynwood, WA 98036	The goal of our program is to offer students "hands-on" field experience while providing an excellent learning environment in the classroom. In addition to class work and field work, our department presents a variety of speakers each year and encourages student participation in professional and specialty organizations.	ATA: Nursery Specialization Certificate: Ornamental Horticulture Certificate: Nursery Crop Growing	http://hort.edcc.edu/
Grays Harbor Community College	1620 Edward P. Smith Drive Aberdeen, WA 98520	The mission of the Grays Harbor College natural resource program is to facilitate sustainable natural resource use through education, outreach, research and service. To this end, our academic programs promote interdisciplinary/multicultural understanding, technical-skill development and real-world application in the fields of natural resource management and conservation.	AST: Fisheries Option Certificate: Aquaculture Technician Certificate: Aquaculture	http://www.ghc.edu/nr/
Lake Washington Technical College	11605 132nd Avenue NE, Kirkland, WA 98034	This program provides students with knowledge and skills needed for jobs with nurseries, greenhouses, landscape firms, garden centers, and park departments. Industry-based training experience is an option.	Certificate: Environmental Horticulture AAS: Environmental Horticulture	http://www.lwtchort.com/
Peninsula College	1502 East Lauridsen Blvd Port Angeles, WA 98362	Peninsula College's Fisheries Technology Program is meeting needs of this diverse field by offering hands-on, academically rigorous instruction in an effective learning environment. The guiding principle in the Fisheries Technology Program is to develop and apply technical, research, communication, and computer skills to hands-on fisheries projects and exercises.	Certificate: Fisheries Technology AAS: Fisheries Technology	www.pc.ctc.edu
South Seattle Community College	6000 16th Avenue S.W. Seattle, WA 98106	The wine classes are designed to educate and inform individually, for students who are just getting a start in the wine industry or professionals who need information on current trends and to enhance their skills. We offer one class or a series of classes towards attaining a certificate in winemaking, wine marketing and sales, or food and wine pairing.	Certificate: Wine Making Certificate: Wine Marketing and Sales	http://www.southseattle.edu/programs/proftech/wine.htm
South Puget Sound Community College		Students in the Horticulture Technology program experience both theoretical and practical applications in landscape design, installation and maintenance (both indoors and outdoors), plant identification, soils and plant nutrition, plant propagation, production and marketing and use of native plants in the landscape.	ATA: Horticulture Technology Certificate: Sustainable Plant Production	www.spscc.ctc.edu

Spokane Community College	1810 N. Greene Street Spokane, WA 99217	Our program offers comprehensive training in production and business aspects of agriculture. Graduates are qualified for entry level jobs in agribusiness and farming. This program provides a study of ornamental plant materials, plant propagation, and nursery and greenhouse management methods.	AA: Agriculture Pre-Major AAS: Agriculture Technology Certificate: Agriculture Technology Certificate: Small Engine Repair Certificate: Spray Technician AAS: Horticulture AAS: Greenhouse/Nursery Certificate:Landscape/Turf Management AAS: Landscape/Turf Management AAS: Soils	www.scc.spokane.edu
Walla Walla Community College	500 Tausick Way Walla Walla, WA 99362	The primary objectives of the program are to offer students technical knowledge in the areas of soils and fertilizers, pests and control procedures, and crop and livestock production and management. Agri-Business combines knowledge and skills from the fields of general agriculture and business administration to prepare students for the management functions involved with the production and marketing of agricultural commodities. The John Deere Tech program is an educational experience designed to upgrade the technical competence and professional skills of incoming John Deere employees and enhance the skills of existing John Deere personnel.	AAAS: Agri-business AA: Agri-Business AAAS: Agri-business/Wine Marketing and Sales Certificate: Agri-Business/Wine Marketing and Sales Certificate: Agri-business AAAS: John Deere Dealer Management AAAS: John Deere Technology John Deere Professional Competency Update Training AAAS: Turf Management Certificate: Turf Management	Contact and Website Agriculture: Michael Moramarco michael.moramarco@wwcc.edu Turf: William Griffith bill.griffith@wwcc.edu Deere Dealer: Les Echtenkamp les.echtenkamp@wwcc.edu Deere Tech: Del Wilde delwin.wilde@wwcc.edu Outdoor Equipment: George Klein george.klein@wwcc.edu
Water and Environmental Center at Walla Walla Community College	500 Tausick Way Walla Walla, WA 99362	The Water and Environmental Center will create an academic and community based learning environment focusing on best water management practices, watershed planning, environmental enhancement, and the cultural aspect of this significant challenge of our time in cooperation with all interested parties.	AAAS: Irrigation Technology AAAS: Water Resources Technology Degree Endorsement: Water Conservation	http://www.wwcc.edu/CMS/index.php?id=1729
Wenatchee Valley College	1300 Fifth Street, Wenatchee, WA 98801	The WVC Agriculture programs are designed to address the general, entry-level training and educational needs of the area's agricultural industries.	ATS: Agriculture Certificate: Hispanic Orchard Employees Program Certificate: Integrated Pest Management Technician BS: Sustainable/Organic Tree Fruit Production	http://www.wvc.edu/directory/departments/agriculture/default.asp
Yakima Valley Community College	South 16th and Nob Hill Blvd. Yakima, WA 98902	The mission of the Agriculture Program is to serve as a partner with the diverse agriculture industry to provide students with the attitudes, abilities, and problem-solving capabilities to meet career responsibilities and lead agriculture into the future.	AAS: Agribusiness AAS: Food Technology AAS: Food Technology-Enology Option AAS: Production/Pest Management AAS: Production/Pest Management-Viticulture Option AAS: Veterinary Technology AA: Agriculture Certificate: Animal Science Certificate: Tree Fruit Production Certificate: Postharvest Technology	http://www.yvcc.edu/programs/agriculture/default.asp

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K-12 and Non Formal Education Opportunities

Organization	Mission/Purpose	Programs/Classes Offered	Number of Courses offered and Persons Served	Contact	Website
WSU Extension	Washington State University Extension engages people, organizations and communities to advance knowledge, economic well-being and quality of life by fostering inquiry, learning, and the application of research.	Program Offerings: Food Handling, FoodBorne Illness, Food Safety, HACCP, Human Health, Human Nutrition, Integrated Pest Management, Plant Production Efficiency, Organic Agriculture, Sustainable Agriculture, Animal Production Efficiency, Animal Health, Hazardous Materials, Pesticide Application, Plant Germplasm, Agricultural Profitability, Small Farm Viability, Risk Management, Adding Value to new and old Ag products, Managing Change in Ag, Forest Resource Management, Youth Development (4H), Animal Production Efficiency	WSU Extension Workshops: 2,283 Number of Persons Served: 267,001		
Central Washington University	The World Wine Program offers wine-related courses, events, and industry	World Wine Program: Continuing education in wine trade and wine professional development		mummaa@cwu.edu	http://www.cwu.edu/wine-education/www/
Washington State Sheep Producers	This annual shearing school has been offered to individuals seeking experience and knowledge about shearing, wool evaluation, and sheep production since 1977. In addition to teaching the skills of shearing and associated equipment	Sheep Shearing basic skills class Advance Skills Tune-up Class Wool Marketing Sheep Production Sheep Husbandry	16 students per class, per year	wssp@fairpoint.net	www.wssp.org
WSDA Pesticide Farmworker Education	The Pesticide Management Division's Certification & Training section is responsible for providing initial certification and continuing education for pesticide applicators, dealers, consultants and structural pest inspectors.	Pre-License Class Recertification Hands-on Handler Training Train the Trainer		Margaret Tucker: mtucker@agr.wa.gov	http://agr.wa.gov/PestFert/LicensingEd/FarmworkerEducation.htm
South Seattle Community College	The Meat Business Apprenticeship (MBA) program works with partner employers to teach apprentices knowledge and skills through a combination of formal instruction and real world relevant, on-the-job-training	2-year Meatcutting and Meat Management Apprenticeship Program		Duwamish Training Center 206.764.5350	http://dept.seattlecolleges.com/duwamish/pdf/SSCC_MeatBrochure.pdf
Washington Tilth Producers	Farm Walks bring growers and agricultural specialists together to learn on working farms across Washington.	On-Farm tours and education: (Farmer-Farmer)		Nancy Allen: nancy@tilthproducers.org	http://www.tilthproducers.org/farmwalks.htm
Cultivating Success (WSU Small Farms Team)	Creating and implementing educational programs to increase the number and foster the success of sustainable small acreage farmers and ranchers in Idaho and Washington	Sustainable Small Farming and Ranching, On Farm Internships, Agricultural Entrepreneurship, Organic Gardening and Farming, Organic Farming Practicum, Ecological Soils Management Sustainable Small Acreage Livestock Production, Science, Society and Sustainable Food Systems, Field Analysis of Sustainable Food Systems, World Agricultural Systems		Kristy Ott: kristyott@wsu.edu	http://www.cultivatinguccess.org/
4H (WSU Extension)	4-H youth development education creates supportive environments for all youth and families to reach their fullest potential. This will be accomplished through a systemic approach of foundation and mission driven science to meet our goals	K-12 Programs: Animal Science Plant Science Veterinary Science Interdisciplinary Environmental Stewardship	K-12 Programs: Animal Science: 29,979 Plant Science 5,492 Veterinary Science (Under Animal Science) Interdisciplinary 8,874 Environmental Stewardship 6,068	beckmanc@wsu.edu	http://4h.wsu.edu/index.htm

Agriculture in the Classroom	Washington Ag in the Classroom (WAIC) is a school-based education program aimed at enhancing agricultural literacy in K-12 students and educators.	Agriscience, Agribusiness production agriculture Environmental issues: --land use --water quality --air quality --wildlife protection	K-12 Average: 15,000 per year 590+ classrooms in 2007	info@waic.net	www.waic.net
FFA	FFA represents the relevancy to the core areas offering students opportunities that changes lives and prepares students for premier leadership, personal growth and career success.	Ag Communications, Ag Ed, Ag. Mechanics Design and Fabrication, Ag Mechanics Energy Systems, Ag Mechanics, Repair and Maintenance, Ag Processing, Ag Sales, Ag Services, Aquaculture, Beef Production, Dairy Production, Diversified Agricultural Production, Diversified Crop Production, Diversified Horticulture, Diversified Livestock Production, Emerging Agriculture Technology, Env. Sci. and Nat. Res. Management, Equine Science, Fiber and Oil Crop Production, Floriculture, Food Science and Technology, Forage Production, Forest Management and Products, Fruit Production, Grain Production, Home/Community Development, Landscape Management, Nursery Operations, Outdoor Recreation, Poultry Production, Sheep Production, Small Animal Production and Care, Specialty Animal Production, Specialty Crop Production, Swine Production, Turf Grass Management, Vegetable Production, Wildlife Production and Management	Students Served: 6,735 # of Chapters: 172 Total Students enrolled: 19,241 # of Agriculture Departments (middle and High School): 199		