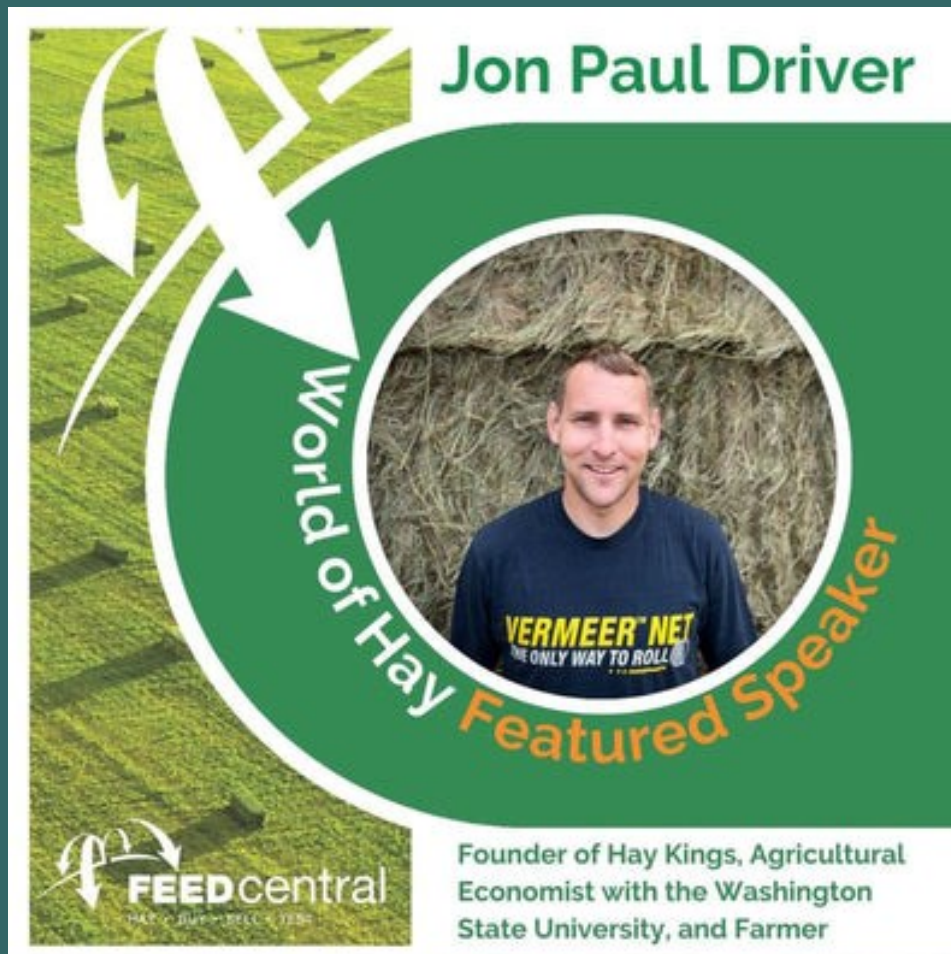


Country Living Expo & Modern Homsteading

2024 Class Information and Descriptions

Saturday, January 27, 2024



Jon Paul Driver

World of Hay
Featured Speaker

VERMEER NET
THE ONLY WAY TO ROLL

Founder of Hay Kings, Agricultural Economist with the Washington State University, and Farmer

FEEDcentral
HAY • BEEF • MILK • EGGS

Key Note Speaker - John Paul Driver

- Explore the art and science of farm financial management, sharing invaluable insights, strategies, and success stories. Whether you're a seasoned farmer looking to maximize profits or a budding agrarian eager to learn the ropes, this talk will help you stack the financial odds in your favor.

Register online:
Skagit.wsu.edu/countrylivingexpo/

Class Choice Info

- Lunch is included with your registration and is offered during Session 3 or 4. Choose only one class from Sessions 3 and 4, so that you may attend lunch in the other session.
OR
- You may attend classes in both Session 3 and 4, but then you'll sacrifice our prime rib or vegetarian lunch and must bring a sack lunch.
- Some classes cover two sessions and **require** signing up for **both** parts consecutively (see the next the page for all the "two-session" classes). **READ CAREFULLY. Please respect this requirement. Often these classes fill so taking only one class means there is an empty seat in part 2 which isn't fair to instructor. Thank you.**
- Some classes are repeated in more than one session.
- Some classes have a materials fee, which is listed in the class description.

Two-Session Classes

Each class described on this page is scheduled consecutively over two sessions. Each class title and number is also listed on the additional session pages.

To attend these two-hour classes, you must sign up for both parts consecutively (one for each session). For instance, for “Let’s Talk Goats”, sign up for #518 for Session 5, #618 for Session 6.

Session 1 & 2 Classes

112 Necropsy of a Dead Calf, Part1

Take: #112 & # 212

141 Basics of Wool Processing, Part 1

Take #141 & # 241

Session 2 & 3 Classes

280 Beginning Beekeeping, Part 1

Take # 280 & # 380

205 Sheep 101, Part 1

Take: #205 & #305

Session 3 & 4 Classes

380 Beginning Beekeeping, Part 2

Take # 280 & # 380

305 Sheep 101, Part 2

Take: #205 & #305

#399 The Rumen, it's Health and Function , Part 2

Take # 299 & # 399

Session 4 & 5 Classes

#444 Building a Small Farm Building, Part 1

Take: # 444 & Part 2 # 544

**#455 The Magic of Spinning Yarn with a Wood Drop Spindle,
Part 1**

Take #455 & Part 2 #555

#511 Preparing for lambing and kidding Part 1

Session 5 & 6 Classes

#511 Preparing for lambing and kidding Part 1

Take: #511 & 611

**#520 Cold Process Soap- Everything You Wanted to Know,
Part 1**

Take: #520 & 620

#580 Raise Your Own Honey Bee Queens, Part 1

Take: 580 & 680

Session 1:

9:00 - 10:00 AM

Two-Session Classes

To attend these classes, you must sign up for Part 2 in Session 2.

112 Necropsy of a Dead Calf, Part 1

Take: #112 & # 212

141 Basics of Wool Processing, Part 1

Take #141 & # 241

#170 Forest Health in the Pacific Northwest, Part 1

Take: #170 & # 270

100 Evaluating Your Farm Debt & Survivability

Explore the art and science of farm financial management, sharing invaluable insights, strategies, and success stories. Whether you're a seasoned farmer looking to maximize profits or a budding agrarian eager to learn the ropes, this talk will help you stack the financial odds in your favor.



Instructor: John Paul Driver

#104 Slugs Midnight Marauders= Managing Slugs and Snails in your Garen

Learn about the slugs and snails in your garden. Learn tips for a variety of way to control those pesky slugs and snails that live in your garden.

Instructor: Diana Wisen

#105 Mozzarella

After home dairying for years, I make all of my own dairy products. Learning all of it takes a lifetime, but in this class, I can get you started making fresh Mozzarella.. I work full time and farm, but I have learned to make delicious dairy products in my kitchen on a regular basis. In this class, we will make mozzarella, from start to finish.



Instructor: Jessica Nemnich

#108 Small Ruminant Health Class

Instructor: Dr. Wreggelsworth

#109 Raising Heritage Turkeys

Heritage turkeys are long lived, active foragers, genetically diverse breeds that are able to mate naturally and raise their young. Much slower to develop heritage birds live long enough to develop a layer of fat beneath the skin, which imparts a rich flavor to the meat. They also have larger thighs and legs because they still run and fly which produces especially dark, juicy meat. Learn how to raise heritage breeds of turkey for your family's needs.



Instructor: Benjamin Janicki

110 Arc Welding I

Intro to welding with an opportunity for hands-on training for each student. Add \$7 materials fee.

Instructor: Darryl Main

111 Managing The 7 Wastes on Your Farm

Borrow a concept from Lean Manufacturing, and master The Seven Wastes on your farm. Analyzing your operation to identify and eliminate "muda" (waste) will improve profitability and reduce the cost of non-quality, as well as cut down your workload and stress!

Instructor: Michelle Canfield

112 Necropsy of a Dead Calf, Part 1

Take: #112 & # 212

This class will begin with a brief lecture covering specific considerations for performing a field necropsy, identifying lesions, and clarifying treatment successes and failures. Following the introductory lecture a demonstration of field necropsy techniques will be covered in a lab setting.

Instructor: Dr. Craig McConnel WSU School of Vet Medicine

#115 Soil Sampling 101

Come learn the basics of how and why you should take a soil sample from your pasture or crop field. Soil testing not only will provide valuable insight on the nutrient levels of your soil but will also help inform you of how best to manage the nutrients for the crop you are planning to grow. Learn how to pull a sample accurately, where to send it in for analysis and how to interpret the results.

Instructor: Eric Schuh

#116 Saddle Fitting for Your Horse

A good fitting saddle is imperative for the comfort of both horse and rider. It improves the way your horse will work, making them

more willing. The goal of proper saddle fit is to identify a saddle that fits both participants—the horse and the rider. Cherie will look at the key physical characteristics affecting saddle fit, and share critical saddle fitting points.

Instructor: Cherie Geerdes

#117 The In-Cider Scoop: Growing Cider Apples in a Fruiting Wall System

Interested in growing apples for hard cider? In this class, we will talk about cider apples, orchard designs, and varying management practices. Learn about apple tree training systems that allow one to grow more apples with less space by maximizing yield. We will also discuss the potential for mechanization in the cider apple orchard.

Instructor: Seth Brawner

#120 Rejuvenate! Quick landscape design for homeowners.

So many people want to work in their own landscapes but lack design skills. In this class, participants would jump right in to sketching their landscape while being guided to create a vision for their own gardens.

Instructor: Kathy Anderson

121 Growing in High Tunnels, Cold Frames, and Unheated Greenhouses

A variety of structures can be used to grow greens during the fall/winter/spring, start warm season crops, propagate perennials, grow warm climate crops like melons, peppers, and tomatoes, as well as shelter frost-tender plants through the winter chill. Learn the ins and outs of the different structures available, things to know when choosing a site, dealing with ventilation and weather challenges, along with a few tips and tricks for getting the most out of these structures.

Instructor: Kate Ryan



#123 Growing Great Pastures

This class will cover all aspects of Pasture Management from establishing a new pasture to renovating and existing needing help. Other topics covered will include soil sampling, seed selection, nutrient management, fertilizer time, weed control techniques, and various harvest methods.

Instructor: Jon Jarvis



124 Soils Near and Far

The natural variation of soil types and properties as they vary through space and time as the result of environmental variation expressed as the five soil forming factors.

Instructor: Bruce Lindsay

#125 Starting with Elderberries

How to be productive with Elderberry shrubs in the PNW. This class will cover Varieties, Spacing, Pollination, Location, Pruning, and Prepping of Berries for home use.

Instructor: Seth Smith

#130 A Beginners Guide to Selection and Care of Fruit Trees in Home Landscape

If you are just getting started growing fruit trees in your home

landscape there are some key considerations that will increase your enjoyment and chances for success. We'll talk about these how these choices will guide you do meeting your home fruit goals.

Instructor: Bob Baines

#131 Veggie Gardening 101

This class presents some basic concepts for the novice gardener. Class concepts include site selection, soil prep, plant selections for our area, timing for both seed sowing and transplanting starts, and harvesting tips.



Instructor: Gail Beasley

#134 Hay 101

How to inspect, test and acquire the best hay to meet the needs of the species and life-stage animal you are feeding. Whether it's Cattle, llamas, alpacas, horses, sheep, or goats this class will help you in the decision making process.

Instructor: Dr. Scott Waltner

140 Aching Hands and Stomped-on Feet: Simple Tools and Modifications for Farmers and Gardeners

Awaken your body by adopting the right tool or modification to help reduce the strain and stress of farming on the body. In a hands-on demo, join Washington State AgrAbility Project, a USDA-funded program, in exploring simple tools and techniques for protecting your health while farming and getting back in the dirt.

Instructor: Curt Johnson

141 Basics of Wool Processing, Part 1

Take #141 & # 241

Take the mystery out of processing your own wool—step by step from raw fleece to carded batts or combed top, ready to spin or felt. Discussion of fleece characteristics, demo of all processing steps in second hour, and plenty of Q&A time.



Instructor: Denise Mor

#142 ?

Instructor: ?????????????????????????????????

#145 Electric Chainsaws

This class will cover the use, care and operation of electric drive chainsaws. We will look at both corded and battery driven electric saws how they differ from your common gasoline operated chainsaw and how they are similar. We will cover powering the saw, basic maintenance, chain sharpening and safe use. If you bring your saw and questions, we will answer the most asked questions and help solve common problems.

Instructor: Steve VanValkenburg

148 Day Hiking in the North Cascades

Come take a slideshow hiking tour of Washington's famed North Cascades with Award Winning guidebook author **Craig Romano**. Drawing from his *Second Edition Day Hiking North Cascades (Mountaineers Books)*; Craig will introduce you to a diverse array of trails on the Mountain Loop Highway, and in the North Cascades National Park, Mount Baker Region, Twisp River Valley, and

Methow Valley. Craig hiked more than 2000 miles researching this book from easy nature trails to wilderness romps.

Instructor: *Craig Romanos*



#150 Intro to Canning-overview of water bath and pressure canning

Learn the basics of safe canning practices as we explore water bath and pressure canning. Discover how to determine which foods may be safely processed with a boiling water bath, which foods require the use of a pressure canner, and why. This introductory class will cover some important terminology, identify different types of equipment, and ways to access safe, tested recipes for canning.

Instructor: *Jennie Bryan-Goforth*

#155 The Homestead Cidery

An intro to making cider at home. Learn about equipment required,

basic hygiene, apple processing, sweet cider making, hard cider fermentation and bottling. Also vinegar and cyser, and alternative methods of cider production.

Instructor: *Doug Hofius & Philip Hofius*

#166 Raising Market Pigs on Pasture

Pastured pigs are great pasture renovators, learn the steps to get them from weaner to market weight while they do what nature intended them to do **Instructor:** *Carol Osterman*

#170 Forest Health in the Pacific Northwest, Part 1

Take: #170 & #270

The class covers what every owner of wooded property needs to know about how forest health works in western Washington. Learn about current and spreading issues affecting the area, risk factors, and how to know how well your forest is functioning. Know what's normal and what's not, when to be concerned, and what to do



Session 2: 10:15 - 11:15 AM

Two-Session Classes Session 1 & 2

212 Necropsy of a Dead Calf, Part 2

Take: #112 & #212

241 Basics of Wool Processing, Part 2

Take # 141 & #241

#170 Forest Health in the Pacific Northwest, Part 1

Take: #170 & #270

Two-Session Classes in Session 2 & 3

280 Beginning Beekeeping, Part 1

Take #280 & #380

205 Sheep 101, Part 1

Take: #205 & #305

#200 Evaluating Your Farm Debt & Survivability

Explore the art and science of farm financial management, sharing invaluable insights, strategies, and success stories. Whether you're a seasoned farmer looking to maximize profits or a budding agrarian eager to learn the ropes, this talk will help you stack the financial odds in your favor.

Instructor: *John Paul Driver*

#202 Grow It and Stow It

Maximize your family's food budget and connection to the land by planning what to grow, and then planning how to preserve and use what you grow. You'll walk away with tips and tricks, lots of recipes and inspiration, a sample meal plan for the week, and next steps for your family's journey, whether you live in an apartment in town or on acres of land.

Instructor: *Tara Vanloo*

#203 Picking Family-Friendly Livestock Breeds

Homesteading can be a happy family affair, but there are certain breeds from each classic barnyard species that fair better in a family environment. If you want to select for productivity and temperament, then this class will offer some insights. Ali Maynard, the Farm Coordinator at Farrel-McWhirter Park for the City of Redmond Parks Department, has specialized in selecting breeds and individuals that thrive at the City's public educational farm for well over a decade. Come meet a few of the animal residents of Farrel - McWhirter Park as Ali discusses breed selection, selecting individuals, training, and management of livestock that will be a safe and kind asset to your family homestead.

Instructor: *Ali Maynard*

#204 Disease Pest Management for Greenhouse & Gardens

Holes in your lettuce? Worms in your apples? Vegetables keep mysteriously disappearing before harvest? This class will help you identify the signs of common pests and diseases, and learn practical, safe, and efficient methods for preventing and treating these pests in your garden and/or greenhouse to ensure your plants thrive.

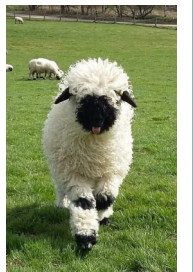
Instructor: *Nicole Jones*

205 Sheep 101, Part 1

Take: 205& #305

Getting Started with your first sheep. If you are thinking of getting into sheep for the first time, you won't want to miss this. We'll talk about the basics of everything you need to know to bring home your first sheep, including hooves, shearing, fencing, housing, handling and medical care.

Instructor: *Jessica Nemnich*



208 Beginning Dog Psychology 101

Please join Christine as she explains how effectively communicate with your dog. She has been training dogs since 1978 and has trained show dogs, obedience dogs, field trial and hunt test dogs, and agility dogs.

Instructor: *Christine Cameron*

209 Heritage Poultry Breeds

Heritage chicken breeds are heirloom breeds that adhere to a few important standards including: recognition by APA (American Poultry Association), naturally mating (no artificial insemination), have a long and productive outdoor lifespan, and have a slow growth rate. We will discuss breeding and standards, showing, and

maintaining a flock of heritage birds.

Instructor: Benjamin Janicki

212 Necropsy of a Dead Calf Part 2

Take: #112 & 212

This class will begin with a brief lecture covering specific considerations for performing a field necropsy, identifying lesions, and clarifying treatment successes and failures. Following the introductory lecture a demonstration of field necropsy techniques will be covered in a lab setting, (warm classroom) !

Instructor: Dr. Craig McConnel

#216 Saddle Fitting for Your Horse

A good fitting saddle is imperative for the comfort of both horse and rider. It improves the way your horse will work, making them more willing. The goal of proper saddle fit is to identify a saddle that fits both participants-the horse and the rider. Cherie will look at the key physical characteristics affecting saddle fit, and share critical saddle fitting points.

Instructor: Cherie Geerdes

#217 The In-Cider Scoop: Growing Cider Apples in a Fruiting Wall System

Interested in growing apples for hard cider? In this class, we will talk about cider apples, orchard designs, and varying management practices. Learn about apple tree training systems that allow one to grow more apples with less space by maximizing yield. We will also discuss the potential for mechanization in the cider apple orchard.

Instructor: Seth Brawner

#220 Plant More, Water Less!

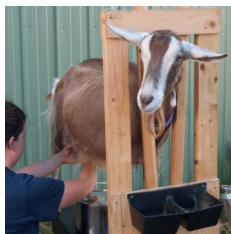
Save on summer water bills by learning techniques for storing water IN the ground. Learn how to effectively amend your soils so they collect and absorb water for year-round use. Bring a sample of your soil so you can assess it right in class!! Start now, while the free water faucet is running!!

Instructor: Kathy Anderson

221 Feeding Dairy Goats

Feeding your goats should maximize production, maintain the health of the animal and should not be costly. If you are not achieving these three goals, come learn feeding tips that help both you and your herd.

Instructor: Gary Fredericks



222 What to Look for When you Buy or Rent a Piece of Property

You should always go on a second date! Match your farming goals and objectives with potential farm sites. All farms are not created equal. Learn what resources are available for evaluating soil types, land usage, setbacks, regulations and wetlands **before** you purchase a farm. Careful preplanning begins a strong foundation for meeting your personal and financial goals.

Instructor: Charlie Boon & Emmett Wild

#223 Growing Great Pastures

This class will cover all aspects of Pasture Management from establishing a new pasture to renovating and existing needing help. Other topics covered will include soil sampling, seed selection, nutrient management, fertilizer time, weed control techniques, and various harvest methods.

Instructor: Jon Jarvis

224 Hop Growing in the PNW

Hops are a major specialty crop in the Pacific Northwest with demand driven by specialty crafted beer.

Amy and Byron will share their journey incorporating hop production on their farm. Where to plant, planting season, nutrient management and soils will be covered. Whether you plan to let

your hops grow over a gazebo or trellis for easy harvesting or up wires and cables hear the successes and challenges as they have navigated growing an 18' tall crop and the tools and equipment needed for harvesting.

Instructor: Byron Betts & Amy Moe



225 Getting Figgy With Figs

How to start and stay successful at growing fig trees in the PNW. Figuring out site selection, soil requirements, varieties, pruning, and propagating figs

Instructor: Seth Smith

326 Fruit Tree Grafting, Part 1

Take #226 & #326

In this workshop, we cover the basics of hardwood grafting - tools, timing, and technique. Come prepared for hands-on grafting! Bring your own grafting knife if you have one. We'll have some tools on hand. We will also supply a limited selection of apple rootstock and scion wood. If you wish to graft something other than apple, bring your own rootstock and scion wood. Class Fee: \$10 scion wood. You may order a grafting knife for an additional \$25. We'll contact registrants before Expo to take orders for the knives.



Instructor: Dan Vorhis

228 Learn about Microclimates in Your Yard

Learn how to determine what microclimates you have in your own yard. And why does this even matter—because plants are going to thrive in the conditions they like best and you need to know where specific variables exist in your yard related to slope, orientation to the sun, wind exposure, soil type and drainage, elevation. Even slight changes in any of these can create a different microclimate than exists in the rest of your garden.

Instructor: Claudia Wells

#230 Landscape Pruning – Trees and Ornamental Shrubs; Principals and techniques to achieve your goals

This class will discuss how tree physiology dictates how to make tree pruning cuts that are the least damaging to trees. Also discussed will be how the natural growth habit of ornamental shrubs is your guide maximizing their beauty and utility in the landscape.

Instructor: Bob Baines

#231 Krumkake~ A Scandinavian Specialty Cookie

This session is a demonstration on how to make a Scandinavian Sweet Treat. Come observe and then taste these fabulous cookies!

Instructor: Krista Cairus



233 Pigs 101

Everything you need to know for raising your first pig. Feeding, Housing, and Fencing as well as larger operations.

Instructor: Chris Carlson

#234 Basic Beef Feeder Cow Nutrition

How to plan and execute a simple feeding program for calves, yearlings, breeding stock and finish animals.

Instructor: Dr. Scott Waltner

241 Basics of Wool Processing, Part 2

Take #141 & # 241

Take the mystery out of processing your own wool- step by step from raw fleece to carded batts or combed top, ready to spin or felt. Discussion of fleece characteristics, demo of all processing steps in second hour, and plenty of Q&A time.

Instructor: Denise Mor

245 Tractor Maintenance

A well-maintained working tractor is the mainstay of many small farms. Learn routine preventative maintenance to keep your tractor starting up on the first turn.

Instructor: Steve VanValkenburg



#248 Urban Trails in Bellingham & Everett

Discover your wild backyard. Come take a slideshow trail tour around Bellingham, Western Whatcom County, the Skagit Valley, Fidalgo Island, Western Snohomish County, Camano Island, and Whidbey Island with award winning guidebook author Craig Romano. Craig will be drawing from material from two of his recent books, *Urban Trails: Bellingham* and *Urban Trails: Everett* to share with you scores of trails, parks, and preserves to hike, walk, and run all year long.

Instructor: Craig Romanos

250 Pickling & Fermentation

Natural fermentation is one of the oldest means of food preservation, and it reduces the risk of foodborne illness and food spoilage. Jennie will demonstrate preparation techniques, explain the science behind pickling and fermentation, how to make sauerkraut, and will share recipes.

Instructor: Jennie Bryan-Goforth



#255 The Homestead Cidery

An intro to making cider at home. Learn about equipment required, basic hygiene, apple processing, sweet cider making, hard cider fermentation and bottling. Also vinegar and cyser, and alternative methods of cider production.

Instructor: Doug Hofius & Philip Hofius

261 Using Essential Oils on the Farm

Learn how to use essential oils on your farm, inside the home and out, for you, your family, your pets, your livestock, and more. From natural, effective cleaning in your home and barn, to helping keep

your pets and livestock thriving on your farm, this class is for everyone!

Instructor: Tamara Shelley

#261 Spindle Spinning

Learn to spin yarn with a drop spindle

This is a hands on class to learn to spin yarn using a wooden drop spindle. Each participant will receive a drop spindle and fiber to spin and take home.

Instructor: Carol Osterman

Materials fee: \$20

#270 Forest Health in the Pacific Northwest Part 2

Take: #170 & # 270

The class covers what every owner of wooded property needs to know about how forest health works in western Washington. Learn about current and spreading issues affecting the area, risk factors, and how to know how well your forest is functioning. Know what's normal and what's not, when to be concerned, and what to do if you suspect a problem. The discussion will include root diseases, insects, parasitic plants, and drought, and we'll discuss practical strategies for recovering from and preventing problems.

Instructor: Kevin Zobrist



#271 Right Plant Right Place: Growing low maintenance and beautiful Gardens in Western Washington

Would you like to grow a fabulous landscape without spending hours and hours grooming and watering? Do your plants look unhappy? Then this class is for you. Come and learn how to design garden elements that truly fit into your yard while at the same time providing the look and feel that you want. We'll explore how to identify your specific site conditions as well as visit some of the plant varieties that do well in this place we call home.

Instructor: Janet Kolwaski

278 Introduction into Mason Bees

This class covers the basics of why mason bees are important to us. Learn from someone who has been raising mason bees for 20 years how easy it is to raise mason bees, where to locate their houses for best results, how many bees you need, what plants attract mason bees, and how our NW weather can affect the bees and your crops.

Instructor: Raymond Strelecki

#280 Beginning Beekeeping, Part 1

Take # 280 & # 380

Learn how to keep honey bees successfully in the PNW. You will learn how we successfully keep bees without the use of chemicals and treatments! This class will cover the basics of: shelter and Food, using and setting up different types of equipment, the basic behaviors of bees, how to know when "something" is wrong doing a quick inspection, different diseases and what to do, grading your bees, locating your queen quickly, honey bee nutrition, how to maintain a healthy hive, successful over-wintering in the PNW. This is a hands-on class minus the bees!

Instructor: Tamila Morgan

#299 The Rumen, it's Health and Function , Part 1

Take # 299 & # 399

Instructor: Morgan Hawley

Session 3:

11:30 AM -
12:30 PM

Please choose a class from Session 3 or 4. You'll eat lunch during the session not chosen for a class.

Or choose to forego our prime rib or vegetarian lunch and choose a class in both sessions. Bring your own lunch.

Two-Session Classes in Session 2 & 3

380 Beginning Beekeeping, Part 2

Take # 280 & # 380

305 Sheep 101, Part 2

Take: #205 & #305

#399 The Rumen, it's Health and Function, Part 2

Take # 299 & # 399

#301 Everything is Coming up Roses

Come learn about the requirement and care for the rose so you can nurture the beauty in your garden. A symbol of love and beauty, as well as war and politics, the rose was designated our national flower in 1986, winning by popular vote over the American marigold

Instructor: *Virgene Link-new*

303 Pounds Pay the Bills

How can you insure your profitability raising beef? The greatest single input is the ability of your animals to gain weight consistently from birth until harvest. Hear a local beef rancher share his strategic management strategy which sets the frame work for his operation. Choosing your genetics, establishing stringent breeding and calving seasons, herd health, facilities, marketing and maximizing your forage production all using best management practices gives you the best opportunity to profit and will be shared in this class. Learn how to maximize the pounds of beef your animals produce to give you the highest return on your investment of time and dollars.



Instructor: *Jim Anderson~ 2hrs*

#304 Garden Tool Selection, Sharpening, & Maintenance

With such an array of garden tools available, how do you choose what's right for you and your gardening needs? Learn how to select, care for and sharpen your own garden tools. which will make gardening easier and more fun for you.

Instructor: *Diana Wisen & Don Ham*

305 Sheep 101, Part 2

Take: 205& #305

Getting Started with your first sheep. If you are thinking of getting into sheep for the first time, you won't want to miss this. We'll talk about the basics of everything you need to know to bring home your first sheep, including hooves, shearing, fencing, housing, handling and medical care.

Instructor: *Jessica Nemnich*

308 Advanced Dog Psychology 102

Please join Christine as she explains how effectively communicate with your dog. She has been training dogs since 1978 and has trained show dogs, obedience dogs, field trial and hunt test dogs, and agility dogs.

Instructor: *Christine Cameron*

#309 Friendly in the Flood plain: What are waterways are telling us, how they are changing, and practical strategies for managing streamside properties

Join Snohomish Conservation District staff as they discuss current trends in streamside habitat and explore different strategies to

manage streamside properties. This presentation will cover the principles of managing streamside areas as well as teach some of the practical strategies a landowner can utilize in order to manage their property to best suit their land use goals in tandem with responsible streamside management.

Instructor: *Thomas Bulthuis*

310 Arc Welding I

Intro to welding with an opportunity for hands-on training for each student. Add \$7 materials fee.

Instructor: *Darryl Main*

#311 Using Kanban to Organize Work and Flow Using Kanban to Organize Your Business and Life

Borrow a concept from Toyota's "Lean Manufacturing" movement. Make a Kanban (card) board, which acts as a dynamic to-do list, for tracking the flow of work and chores in your business, on your farm, or in your household. Kanbans help you visualize your goals, prioritize, communicate status with others, see and celebrate progress, understand labor capacity, and avoid running out of the inventory you need to keep things running smoothly! Whether you run a small business with staff, or just want to organize your life, farm and family; Kanbans will help you see what's most important, gain control of your priorities, and improve efficiency at getting work done!

Instructor: *Michelle Canfield*

326 Fruit Tree Grafting, Part 1

Take #226 & #326

In this workshop, we cover the basics of hardwood grafting - tools, timing, and technique. Come prepared for hands-on grafting! Bring your own grafting knife if you have one. We'll have some tools on hand. We will also supply a limited selection of apple rootstock and scion wood. If you wish to graft something other than apple, bring your own rootstock and scion wood. Class Fee: \$10 scion wood. You may order a grafting knife for an additional \$25. We'll contact registrants before Expo to take orders for the knives.

Instructor: *Dan Vorhis*

328 Pruning Shrubs in

Are older shrubs taking over your landscape? Have you purchased a home with overgrown bushes? Learn basic pruning cuts, timing for pruning, types of shrubs and how to prune them. Current local pictures with correct and incorrect types presented.

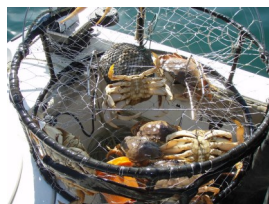


Instructor: *Claudia Wells*

#333 Crabbing

Everything you need to know to spend a day crabbing in the Puget Sound. Discussion will include Licenses, equipment, bait and traps. Helpful techniques to catch your limit every time!

Instructor: Chris Carlson



#340 Wildlife: How to live with, without too much pain!

Our relationship with wildlife has changed much in the past decades, from being viewed as obstacles to progress, to commodity, to nuisance, and amenity. Sometimes all of these apply, but how do we live with the various and fascinating creatures that share our land? In this class we will discuss some of the key species that live in Washington, including those common and controversial, and landowner strategies for attracting, co-existing and repelling when needed. I will also mention the DNR's Service Forestry programs and what is available through WSU and DNR for small forest landowners.

Instructor: Ken Bevis

#371 Right Plant Right Place: Growing low maintenance and beautiful Gardens in Western Washington

Would you like to grow a fabulous landscape without spending hours and hours grooming and watering? Do your plants look unhappy? Then this class is for you. Come and learn how to design garden elements that truly fit into your yard while at the same time

providing the look and feel that you want. We'll explore how to identify your specific site conditions as well as visit some of the plant varieties that do well in this place we call home.

Instructor: Janet Kolwaski

#380 Beginning Beekeeping, Part 2

Take # 280 & # 380

Learn how to keep honey bees successfully in the PNW. You will learn how we successfully keep bees without the use of chemicals and treatments! This class will cover the basics of: shelter and Food, using and setting up different types of equipment, the basic behaviors of bees, how to know when "something" is wrong doing a quick inspection, different diseases and what to do, grading your bees, locating your queen quickly, honey bee nutrition, how to maintain a healthy hive, successful over-wintering in the PNW. This is a hands-on class minus the bees!

Instructor: Tamila Morgan

#399 The Rumen, it's Health and Function, Part 2

Take # 299 & # 399

Instructor: Morgan Hawley

Session 4:

12:45 AM -
1:45 PM

Please choose a class from Session 3 or 4. You'll eat lunch during the session not chosen for a class.

Or choose to forego our prime rib or vegetarian lunch and choose a class in both sessions. Bring your own lunch.

Two-Session Classes

To attend these classes, you must sign up for Part 1 in Session 4, and Part 2 in Session 5.

#444 Building a Small Farm Building, Part 1

Take: # 444 & Part 2 # 544

#455 The Magic of Spinning Yarn with a Wood Drop Spindle, Part 1

Take #455 & Part 2 #555

#401 Rabbits 101

This class will discuss the basics of rabbit care including feeds, housing, and handling. Everything you will need to know to keep your rabbit healthy and happy!

Instructor: Amy Graham

401 Clipping and Showing Beef Cattle

What does it take to win in the show ring? Learn current trends in the art of clipping and fitting to stand out in the show ring from professionals.

Instructor: Tarisa Toth & Amanda Toth

404 Flower Arranging 101

Do you have pretty garden flowers and want to display them in your home? Learn techniques such as greening arrangements, placing



flowers that help you create a shape, and keeping flowers alive longer.

\$7 materials fee.

Instructor: Stanwood FFA Horticulture

#409 Advanced Poultry Genetics and Selection:

Already raise poultry, but want to take your breeding operation to the next level? Love genetics and want to learn more about how it works in chickens, ducks, geese, and turkeys? This class will cover a brief history of poultry breeding, overview of poultry genetics, inbreeding, hybridization, and common strategies on breeding for show and productive qualities.

Instructor: Benjamin Janicki

#410 Perfect Pairing: Chocolate & Strawberries

They may seem like the ultimate fancy party food, but chocolate covered strawberries are actually very easy to make. In this class learn how to create gourmet dipped berries- a deliciously sweet gift for any occasion

Materials Fee: \$7



Instructor: Kim Fox & Talea Price

#416 Physical Exam of the Ruminant—Looking Deeper Into Your Animal

This class will cover a hands-on physical exam of the ruminant animal. My examination is based on a systems approach to the animal. These systems include sensory, reproductive, digestive, mammary plus several more. I will go over equipment needed, safety, provide normal parameters for the animal, and just as importantly, give you abnormalities for each system. For those animals who are not as cooperative, I will also provide some information for an over-the-fence exam. The goal I have in all my classes is to help owners take a more active role in the management of their animals. One of the most popular classes from last year. Bring your questions.

Instructor: Dr. Tim Chuchna

421 Body Score Condition: Your Livestock

How do you know if your feeding your animals correctly? Learn how to evaluate your animal's condition and understand how that relates to their productivity and health.

Instructor: Gary Fredricks



#425 Home Garden Pest Control

Learn how to control your fruit pests using organic, conventional, and mechanical means. Timing is most important and with dwarf trees it is possible to almost eliminate pesticides using mechanical control.

Instructor: Gary Moulton

432 Giant Pumpkin Growing for Beginners

Imagine the sun in your face in Half Moon Bay, CA while standing on top of your giant pumpkin weighing in at 1910 pounds because that's exactly what Cindy Tobeck, the instructor for this class, did and then collected her check for \$11,500. In class she will cover starting pumpkin seeds, pruning and training your plant, and general growing requirements. Seed nomenclature and growers resources will be covered. What a great opportunity to learn from the best.



Instructor: Cindy Tobeck

#434 Basic Beef Cow Nutrition, Calf to Cow

How to plan and execute a simple feeding program for calves, yearlings, breeding stock and finish animals. Find the best solutions for you.

#444 Building a Small Farm Building, Part 1

Take: # 444 & # 544

Learn how to build a small farm shed for your animals or equipment. Get off to a good start learning how to lay out and square your building, add walls, roof and a window and door.

Instructor: Jon Schwegler

445 Tractor Maintenance

A well-maintained working tractor is the mainstay of many small farms. Learn routine preventative maintenance to keep your tractor starting up on the first turn.

Instructor: Steve VanValkenburg

455# The Magic of Spinning Yarn with a Wood Drop Spindle, Part 1- Take #455 & #555

There is something magical about being able to spin your own yarn at home and turning it into a knitted shawl, crocheted hat, or other handcrafted item. Using a well-balanced wood spindle, we will talk about fiber choices, show you how to prepare fiber to spin, and how to start spinning. You will learn the differences between fibers such as wool, alpaca, and cotton, differences of spinning clockwise or counterclockwise, along with best practices. We will briefly discuss plying, how to finish up your yarn by washing it, along with options such as dyeing and a brief discussion on drop spindles. You will receive a wood spindle along with some wool fiber and spindle spinning directions which you can take home. There will be vendors available in the vendor marketplace that have additional fiber you can purchase.



Instructor: Karen Chabinsky

Fee: \$20 (Wooden Spindle to take home)

#470 Know Your Native Trees

Western Washington is home to a wonderful assortment of native trees. If you are new to Washington forests or otherwise unfamiliar with the tree species of the region, this class will teach you about these indigenous sylvan denizens to enrich your next walk in the woods. We'll cover identification, growth traits, and habitats.

Instructor: Kevin Zobrist

#488 Nutrition and Diseases of the Pregnant Ewe

Learn how to feed and care for ewes in late gestation. We will discuss basic nutritional needs, what to watch for and problem solving. Dr. Swannack will provide many tips and tricks to help you have a successful lambing season.

Instructor: Dr Leah Swannack

Session 5:

2:00 - 3:00 PM

Two-Session Classes

To attend these classes, you must sign up for Part 1 in Session 4, and Part 2 in Session 5.

Session 4 & 5 Classes

#544 Building a Small Farm Building, Part 2

Take: # 444 & Part 2 # 544

#555 The Magic of Spinning Yarn with a Wood Drop Spindle, Part 2

Take #455 & Part 2 #555

To attend these classes, you must sign up for Part 1 in Session 5, and Part 2 in Session 6.

#511 Preparing for lambing and kidding Part 1

Take: #511 & 611

#520 Cold Process Soap- Everything You Wanted to Know, Part 1

Take: #520 & 620

#580 Raise Your Own Honey Bee Queens, Part 1

Take: 580 & 680

#501 Rabbit Showmanship

This class will go over the basics of fitting and showing for beginners. Topics will include grooming, handling, and knowledge. Class is geared towards youth competing in 4-H and FFA.



Instructor: Amy Graham

#502 Developing Property for Horse-Keeping

Instructor: Erin Lietzan

503 Pounds Pay the Bills

How can you insure your profitability raising beef? The greatest single input is the ability of your animals to gain weight consistently from birth until harvest. Hear a local beef rancher share his strategic management strategy which sets the frame work for his operation. Choosing your genetics, establishing stringent breeding and calving seasons, herd health, facilities, marketing and maximizing your forage production all using best management practices gives you the best opportunity to profit and will be shared in this class. Learn how to maximize the pounds of beef your animals produce to give you the highest return on your investment of time and dollars.

Instructor: Jim Anderson~ 2hrs

504 Flower Arranging 101

Do you have pretty garden flowers and want to display them in your home? Learn techniques such as greening arrangements, placing flowers that help you create a shape, and keeping flowers alive longer.

\$7 materials fee.

Instructor: Stanwood FFA Horticulture

#505 Let's Talk about Ag Stress

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Instructor: Julie Jesmner

#509 Horned Dorset's: History, Traits, and Care of a Rare Sheep Breed

Concerned about heritage Breeds disappearing? This class will focus on saving heritage breeds, and specifically on the endangered Horned Dorset sheep originally from England. Dating back to the 17th century. These are gentle sheep, prolific ewes with great mothering instincts. They are great milk producers and can be bred for year-round production.



Instructor: Ben Janicki

510 Arc Welding I

Intro to welding with an opportunity for hands-on training for each student. Add \$7 materials fee.

Instructor: Darryl Main

#511 Preparing for lambing and kidding Part 1

Take: #511 & 611

Don't be caught unprepared in an emergency situation during the most important time of the year! Assess your pregnancy nutrition and vaccination plans, check your inventory for important medicines, prepare a gear bag with critical tools near-at-hand, and assess your infrastructure in the weeks ahead, so you are ready for anything! *TWO HOUR CLASS* First hour is focused on preparing for mama issues, 2nd hour is focused on preparing for baby issues.



Instructor: Michelle Canfield

#512 The Calving Process: Normal & Problem Calving

Calving can be tricky. In this class Dr. McConnel will teach you to understand the importance of the calving process. Differentiate between what a normal and abnormal calving looks like. Improve decision-making during calving, and proper assisting techniques.

Instructor: Dr. Craig McConnel

#516 Barn Yard First Aid

Instructor: *Dr. Tim Cuchna*

#518 Noxious Weeds

Noxious weeds can be costly, annoying, and downright mean. Whether you're dealing with a particular weed or just want to keep your land as productive as possible, weed management starts with a good plan. Join us in learning more about some of the worst weeds of Western Washington, how to effectively control them and how to make your land more resistant to these unwelcome guests in the first place

Instructor: *Madely Loy*

#520 Cold Process Soap- Everything You Wanted to Know,

Part 1 Take: #520 & 620

Have you been thinking about making cold process soap but are afraid of lye? Or have you tried and it wasn't a success? I will go over everything you need to know: chemistry, materials, safety, process, and more. We will make a small batch in class so you can see what 'trace' looks like and you will go home with some fresh soap.

Instructor: *Karen Corey*



#512 Challenges to Managing Newborn Calf Health & Survival

In this class you will learn to understand proper post-partum care, and looking for signs of Weak Calf Syndrome. Differentiating time and risk factors such as, Thermogenesis, Scours, and Septicemia. We will cover Fluid Therapy considerations, as well as the latest Research related to GI disease. And finally postmortem Examinations.

Instructor: *Dr. Craig McConnell Professor at WSU Vet Medicine*

#521 Pasture Evaluation and Management

Too many weeds, not enough grass? Learn how to look at your pasture management with a critical eye and find out some simple management strategies for improving your forage production.

Instructor: *Gary Fredricks*

#522 Dog Safety and First Aid

Instructor: *Mackenzie Lolkema*

#525 Fruit Tree Pruning

Learn the proper techniques & strategies for pruning fruit trees to maximize fruit production and strengthen the tree from long time successful production grower.

Instructor: *Gary Moulton*



#531 Veggie Gardening 101

This class presents some basic concepts for the novice gardener. Class concepts include site selection, soil prep, plant selections for our area, timing for both seed sowing and transplanting starts, and harvesting tips.

Instructor: *Gail Beasley*

532 Giant Pumpkins Beyond the Seed

This advanced class will cover soil amending, seed selection, fertigation and watering, pest management and disease control. Here's where you will learn to push your pumpkin to the max.

Instructor: *Cindy Tobeck*

#539 Invasive Insects in Washington State

Learn about the invasive insects threatening Washington state, how to recognize them, and what you should do if you find them.

Instructor: *Charlie Colsor*

#544 Building a Small Farm Building, Part 2

Take: # 444 & # 544

Learn how to build a small farm shed for your animals or equipment. Get off to a good start learning how to lay out and square your building, add walls, roof and a window and door.

Instructor: *Jon Schwegler*

#545 Electric Chainsaws

This class will cover the use, care and operation of electric drive chainsaws. We will look at both corded and battery driven electric saws how they differ from your common gasoline operated chainsaw and how they are similar. We will cover powering the saw, basic maintenance, chain sharpening and safe use. If you bring your saw and questions, we will answer the most asked questions and help solve common problems.

Instructor: *Steve VanValkenburg*

#550 Root Cellars and Microclimate Storage

Root Cellars and Microclimate Storage: Learn about food storage and preservation methods including freezing, dehydration, and using root cellars or other microclimate storage in your home. We will also look at different designs for root cellars and basic construction methods. The instructor has utilized a root cellar for twenty years and can offer practical advice and information.



Instructor: *Jennie Goforth*

555# The Magic of Spinning Yarn with a Wood Drop Spindle, Part 2- Take #455 & #555

There is something magical about being able to spin your own yarn at home and turning it into a knitted shawl, crocheted hat, or other handcrafted item. Using a well-balanced wood spindle, we will talk about fiber choices, show you how to prepare fiber to spin, and how to start spinning. You will learn the differences between fibers such as wool, alpaca, and cotton, differences of spinning clockwise or counterclockwise, along with best practices. We will briefly discuss plying, how to finish up your yarn by washing it, along with options such as dyeing and a brief discussion on drop spindles. You will receive a wood spindle along with some wool fiber and spindle

spinning directions which you can take home. There will be vendors available in the vendor marketplace that have additional fiber you can purchase.

Instructor: Karen Chabinsky

Fee: \$20 (Wooden Spindle to take home)



#566 Raising Broilers on Pasture

Raising Pastured Chicken for your Freezer Learn the steps to raising your own broilers, from how to get them started to making the most of them being on pasture

Instructor: Carol Osterman

#570 Forest Health in the Pacific Northwest, Part 1

Take: #470 & # 570

The class covers what every owner of wooded property needs to know about how forest health works in western Washington. Learn about current and spreading issues affecting the area, risk factors, and how to know how well your forest is functioning. Know what's normal and what's not, when to be concerned, and what to do if you suspect a problem. The discussion will include root diseases, insects, parasitic plants, and drought, and we'll discuss practical strategies for recovering from and preventing problems.

Instructor: Kevin Zobrist

571 Clematis, the Queen of Climbers

Learn to bring the amazing beauty and variety of clematis to your garden—with ease. Learn how to how to Select, Grow, and Prune. Using great photos and a friendly speaking style, she will showcase the splendor of clematis and their amazing variety in color, shape, bloom time, and growth habit. Get details about the care of clematis, information about simplified pruning, and recommendations for easy clematis to try. You will receive an informative and detailed handout.

Instructor: Laura Watson

578 Introduction into Mason Bees

This class covers the basics of why mason bees are important to us. Learn from someone who has been raising mason bees for 20 years how easy it is to raise mason bees, where to locate their houses for best results, how many bees you need, what plants attract mason bees, and how our NW weather can affect the bees and your crops.



Instructor: Raymond Strelecki

#580 Raise Your Own Honey Bee Queens, Part 1

Take: 580 & 680

This is for experienced beekeepers that have successfully overwintered bees for several years. We will cover the basics of grafting your own queens for healthier colonies and sustainability. The Class will cover, equipment Choices, why breed your own queens, criteria and strict grading system, basic queen traits and behaviors, how-to-graft, setting up your mating yard. This is a hands-on Class, minus the bees!

Instructor: Tamila Morgan

#588 Club Lamb Fungus and other issues in Show Sheep

Common health challenges including ringworm, rumen acidosis, prolapse, parasites and slow growth. In this session you will learn prevention and treatment strategies for your project animals.

Instructor: Dr. Leah Swannack

#524 Build you own Walk in Refrigerator / Automate your Green House

Learn about building an affordable walk-in refrigerator on your farm using common building materials.

We will discuss basic construction, insulation, and refrigeration using a window unit and Cool-Bot.

Have you ever wanted automated louvers in your green house? Have you



Session 6: 3:15 - 4:15 PM

Two-Session Classes

To attend these classes, you must sign up for Part 1 in Session 5, and Part 2 in Session 6.

#611 Preparing for lambing and kidding Part 2

Take: #511 & 611

#620 Cold Process Soap- Everything You Wanted to Know, Part 2

Take: #520 & 620

#680 Raise Your Own Honey Bee Queens, Part 2

Take: #580 & #680

#601 Basic Bike Maintenance & Trail/Road Repair

Basic maintenance mostly means cleaning and inspecting your bike on a regular basis. It's amazing what those two simple



tasks will accomplish towards a well maintained bike. Do you know what to look for and when? Do you know how to change a flat in a pinch (pun intended) or fix a broken chain when you're out on a ride away from home? Come learn these skills and more! *But please do not bring your own bike*

Instructor: Erin Lietzan

#602 Sheep Showing to Win

Instructor: Tarisa Toth

#603 Back Country Camping with Your Horse

Did you know there are dozens of horse campgrounds across the Pacific Northwest that are underutilized? If you have dreamed of adventure with your horse beyond your local county trail system this class is for you. The number one thing we hear is that most horse owners don't know where to start. This class will cover which training basics that you and your horse (or Mule!) should be comfortable with prior to heading to the backcountry, an equipment checklist including emergency supplies, and campgrounds and trails that are good for all levels of riders to start off with. If we don't use our equestrian areas on public lands, they will be lost to us all. Let's start planning for summer 2024 riding!



Instructor: Ali Maynard

604 Solar, Batteries, Uses & Applications

A hands-on guide to setting up your own small-scale, off-grid, solar system. In this class we will discuss how to design and implement your own system. It will include discussion about types of solar, considerations, calculating needs, and how to set up your system. We will have a lab in which those interested may set up a solar system.

Instructor: Charles Ihler

#605 Feeling Blue about Bird Flu? -Avian Flu

In 2022, 50 million domestic birds have died or been euthanized due to a Highly Pathogenic Avian Influenza strain in the United States. In Washington alone, 36 backyard flocks have been impacted. Join this session to learn about bird flu trends in both domestic and wild birds. Dr. Itle will go step by step through foreign animal disease response, address animal welfare and trade implications. Come to this session to get all of your questions about what to look for, what to expect if HPAI hits your flock and what practices to adopt to prevent transmission.

Instructor: Dr. Amber Itle (Washington State Veterinarian) WSDA

606 Ducks-Quack it UP!

Ducks are the ultimate homesteading super species! You can manage crops biodynamically with their super power pest control of slugs, snails and other insects. Get delicious eggs that are great for baking and eating. Keep them as comedic and fun pets or have meat for your holiday table. Regardless of your reasons for wanting ducks, this class will walk you through current best practices for care and infrastructure needs, physiology and



behavior, breeds and uses, and will help you develop a sustainable flock of your own. So come quack about ducks with us!

Instructor: Emmet Wilde

#607 Common Garden Problems & How to Address Them

Join us for ideas on how to manage many of your common garden issues, as well as landscape and orchard problems. Bring your Gardening issue and questions!

Instructor: Virgene Link

609# How to Build a Community Garden

Learn the steps needed to start a garden in your community. This class will show you how to get the support, funding, and design to start and maintain a garden for you and your neighbors.



Instructor: Andrew Davis

610 Arc Welding I

Intro to welding with an opportunity for hands-on training for each student. Add \$7 materials fee.

Instructor: Darryl Main

#611 Preparing for lambing and kidding Part 2

Take: #511 & 611

Don't be caught unprepared in an emergency situation during the most important time of the year! Assess your pregnancy nutrition and vaccination plans, check your inventory for important medicines, prepare a gear bag with critical tools near-at-hand, and assess your infrastructure in the weeks ahead, so you are ready for anything! *TWO HOUR CLASS* First hour is focused on preparing for mama issues, 2nd hour is focused on preparing for baby issues.

Instructor: Michelle Canfield

#612 Challenges to Managing Newborn Calf Health & Survival

In this class you will learn to understand proper post-partum care, and looking for signs of Weak Calf Syndrome. Differentiating time and risk factors such as, Thermogenesis, Scours, and Septicemia. We will cover Fluid Therapy considerations, as well as the latest Research related to GI disease. And finally postmortem Examinations.

Instructor: Dr. Craig McConnel Professor at WSU Vet Medicine

#616 Stoned Goats

Instructor: Dr. Tim Cuchna

#618 Tomato

Instructor: Kelly Maupin

#619 Owls: Have a Hoot in Your Barn or Outbuilding

Description: Barn owls can be a primary method of rodent control in orchards, vineyards and fields. But even more importantly they are beautiful and amazing creatures. This class will dive into the beauty, biology and behavior of barn owls, as well as how to build and maintain nest boxes to attract these impressive, awesome and enjoyable predators.



Instructor: Brennan VanLoo

620 Cold Process Soap- Everything You Wanted to Know, Part 2 Take: #425 & 525

Have you been thinking about making cold process soap but are afraid of lye? Or have you tried and it wasn't a success? I will go over everything you need to know: chemistry, materials, safety, process, and more. We will make a small batch in class so you can see what 'trace' looks like and you will go home with some fresh soap.

Instructor: Karen Corey

621 Selecting the Right Hay

Paying too much for poor hay?

Gary will discuss what to look for when buying hay and factors that affect hay nutrition. Learn what makes high-quality hay and how to identify it in the bale before you buy. **Participants are encouraged to bring samples of their own hay in a sealed garbage bag.**



Instructor: Gary Fredricks

Instructor: Gary Fredricks

#624 Maximizing Soil Health in Your Garden

Managing soils to maximize soil tilth, organic matter, organisms, and bioactivity.

Instructor: Bruce Lindsay

#633 Raising Meat Rabbits

Discussion on what you need to get started raising meat rabbits. Topics covered will include housing, special equipment, rabbit selection, breeding, feeding and handling. I will have some rabbits available so you can get hands on experience of handling, sexing, and seeing what to look for in meat animals.

Instructor: Lucinda Vanvalkenburg

#638 Noxious Weeds on Your Property: What to know and how to manage difficult and undesirable plants.

Noxious weeds have a significant cost to our region as they impact agricultural production, degrade native habitats, and alter ecosystems. Join Snohomish Conservation District staff as they present on identification, control, and impacts of noxious weeds in Snohomish County

Instructor: Thomas Bulthuis

#639 Backpacking 101

Instructor: Thomas Bulthuis

#640 Aching Hands and Stomped-on Feet: Simple Tools and Modifications for Farmers and Gardeners

Awaken your body by adopting the right tool or modification to help reduce the strain and stress of farming on the body. In a hands-on demo, join Washington State AgrAbility Project, a USDA-funded program, in exploring simple tools and techniques for protecting your health while farming and getting back in the dirt.

Instructor: Curt Johnson

#644 Concrete Slabs for Sheds, Greenhouses, Composting & Walkways.

Need a place to hide the bodies? Pavement is forever so concrete pads are the perfect solution to many farm problems such as manure management, rodent control, mud control and creating dry storage. We'll cover Budgeting, Design, permits, ground prep, forming, reinforcing, crack prevention, where to buy, installation, basic finishing, drying, tools, protective equipment, how to chip up and remove, and if it all goes to pot: cost to hire a pro.

Instructor: Jon Schwegler

#650 Seed Saving for Home Gardens

People save seed for many different reasons, including the preservation of genetic diversity and cost reduction. We'll learn the basics on what can be saved, best practices, seed processing, and storage options. Instructor is the director of Finney Farm Seed Distro, which has provided free seed to local schools, food banks, and community gardens for a decade. Packages of local, organic, heirloom seed will be made available to all participants.

Instructor: Jennie Go-Forth



#654 Instagram Marketing of Your Farm

Learn how to create a supportive community through Instagram and social media. Discover why sharing your story, finding your niche and nurturing your audience is important.

Instructor: Jazzmin Chidester

#671 Layering for a Dynamic & Beautiful Garden

One of the most important elements of a beautiful & dynamic garden is layering, by staggering foreground, middle-ground, and background to create an alluring and satisfying landscape. Principles include repetition, scale, flow, depth, contrast, and focal points. Learn to bring layering principle into your garden.



Instructor: *Laura Watson*

#680 Raise Your Own Honey Bee Queens, Part 2

Take: 580 & 680

This is for experienced beekeepers that have successfully overwintered bees for several years. We will cover the basics of grafting your own queens for healthier colonies and sustainability. The Class will cover, equipment Choices, why breed your own queens, criteria and strict grading system, basic queen traits and behaviors, how-to-graft, setting up your mating yard. This is a hands-on Class, minus the bees!

Instructor: *Tamila Morgan*

#688 How to Have a Healthy Herd, herd management to avoid antibiotic use.

Join Dr. Swannack to explore strategies to keep your flock healthy and happy year-round. Learn how nutrition, minerals, vaccinations, and biosecurity can help us limit our antibiotic needs. We will be discussing alternative treatment options along with appropriate antibiotic use.

Instructor: *Dr. Leah Swannack*

699 Mastitis (Title?)

Instructor: *Morgan Hawley*