Advanced Weaving Skills - Course Curriculum

Welcome to the *CanopyCraft Advanced Tree Net Weaving Course*! In the following modules, we'll expand upon what we covered in the first course and take your weaving to the next level. By the end of this course, you should be able to tackle any net, no matter how complex!

To make it easier to understand, I broke this course up into 10 modules that each contain a set of video lessons. You can scroll down to the following pages to see a list of every video and topics that will be covered in each one.

Course Overview

1. Introduction and Course Overview
2. Net Design Principles
3. Rubber Band Perimeter
4. Subdividing Your Net
5. Weaving the Strips Pattern
6. Weaving the Chaos Pattern
7. Weaving in Rings and Portals
8. Cutting the Demo Net
9. Time Trial Net
10. Course Complete

I included a list of tools/materials below that we'll be using in the course. If they're blue, that means I linked out a supplier I trust. As of now, the suppliers tend to serve the United States mostly but if you need help finding materials in your area, you can reach out to me at my email below and I'll do my best to point you in the right direction!

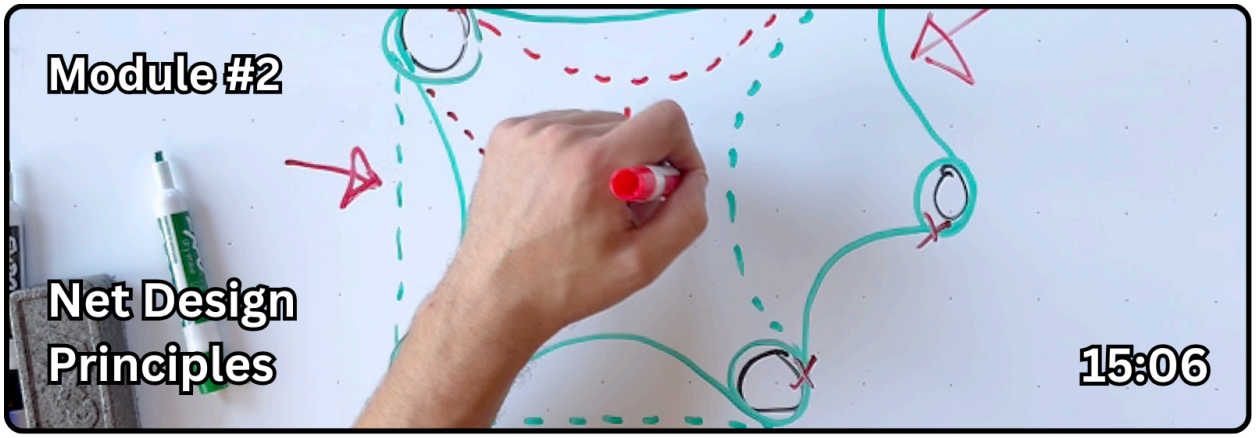
Tools/Materials

- 550 Paracord
- Static Rope
- Ratchet
- Eye Bolts
- 1.5" Rope Sleeves
- Knife
- Torch Lighter
- Respirator
- Prusik Loop **x2**
- Netting Needle
- Spike Tool
- Hot Knife

Any questions or comments? Feel free to shoot me an email at: canopycraftstudio@gmail.com

In this section, we'll get acquainted with the course structure and how to use the Thinkific site.

- 0:37 - Course Overview
- 1:25 - Navigating Thinkific
- 1:48 - Safety Disclaimer



In this module, we'll introduce a series of net design principles to help you make smarter decisions when planning your net. I also included a few real world examples so you can see what these concepts look like in practice.

- **A - Working With Concave Shapes (5:51)**
  - 0:28 - How Nets Change Under Tension
  - 1:47 - How Span Length Affects Area
  - 2:12 - More Anchors = More Area
  - 3:09 - Other Reasons the Perimeter Gets Sucked In
  - 4:18 - "Max Tension"
  - 5:15 - Real World Example

- **B - Nets in 3 Dimensions (5:00)**
    - 0:21 - How Side Walls Affect the Shape of the Net
    - 0:53 - Anticipating the Pull of the Side Walls
    - 2:11 - Applying this to the First Course Demo Net
    - 2:48 - Choosing the Best Anchor and Tree Pro
    - 4:21 - Real World Example

- **C - Different Ways to Wrap an Anchor (4:15)**
    - 0:17 - 360 Outside Wrap
    - 0:35 - 360 Inside Wrap
    - 0:54 - Partial Wrap
    - 1:16 - How Each Wrap Affects Net Area
    - 2:11 - Force Distribution of Each Wrap
    - 3:26 - Best Wraps for Only Wooden Blocks

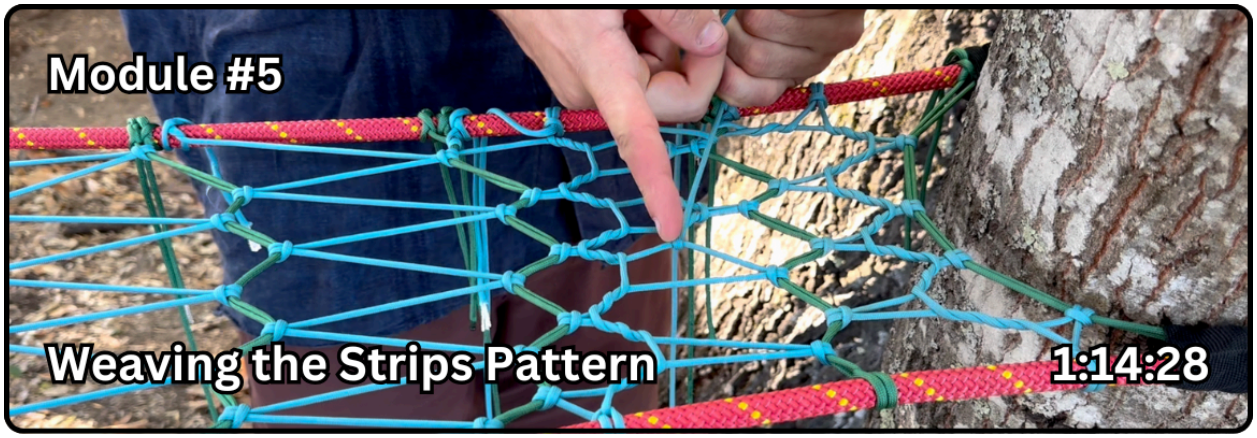
In this module, we'll tie and tension our perimeter for the demo net with the "Rubber Band technique" where it's a single loop joined with one figure eight bend. I'll cover how to thread on sleeves to protect your rope/trees, how to tie the bend and how to use ratchets to make the perimeter as tight as possible.

- 0:45 - Deciding Where the Knot Will Fall
- 1:16 - Prepping and Threading the Sleeves
- 3:41 - Tying the Figure Eight Bend
    - 5:38 - Pulling Out the Slack
- 7:19 - Tensioning the Perimeter with Two Ratchets
- 9:53 - Finalizing the Sleeve Positions
- 10:17 - Final Perimeter Tension
- 11:10 - Why It's Ok to Not Have a Super Tight Perimeter
- 12:01 - Tightening the Bend With the Tails
- 12:26 - Releasing the Ratchets

In this module, I'll introduce the idea of subdividing our net so we can tackle larger nets. I'll also take a moment to define a new set of terms to make sure we're on the same page before we delve into some more complex patterns and concepts later on in the course. After that, we'll head outside to put this into action on our demo net by breaking it up into three sections with a skeleton frame.

- **A - New Terminology (8:51)**
  - 0:21 - What Are Subdivisions?
  - 0:35 - Reviewing the Terms from the First Course
  - 1:31 - Borders, Areas, and Fill
  - 1:49 - Skeleton Frame
  - 2:11 - Sections
  - 2:31 - Compounding Tension
  - 3:38 - Terminology re: Strips Pattern
    - 4:09 - Sub Skeleton
    - 4:27 - Patches
    - 4:34 - Why Double Paracord?
  - 5:58 - Applying Terminology to the Demo Net
  - 6:45 - Terminology re: Chaos Pattern
    - 7:59 - Tendrils

- **B - Tying the Skeleton Frame (4:48)**
  - 0:07 - Using Perimeter Tails
  - 0:44 - How to Tie a Single Fisherman's Knot
  - 2:23 - Sliding the Skeleton Frame to Tension
  - 3:27 - Tying Skeleton Frame #2
  - 3:58 - How We'll Organize Our Demo Net



In this module, I'll introduce the strips pattern on the white board then we'll head outside to see what it looks like on our demo net. I also included a timelapse commentary video so you can get an idea of what's running through my head when weaving and then after that, I'll show you some slow motion footage to help explain techniques I've picked up to weave faster and more efficiently. Finally, you'll see a quick video demonstrating how to tie some difficult upside down constrictors.

- **A - Strips Overview (5:39)**
  - 0:28 - Starting with the Pre-Tension
  - 1:19 - Laying Down the Sub-Skeleton
  - 2:01 - Alternating Strip Orientation
  - 4:34 - Waiting to do the Cross Weave

- **B - Starting from a Triangle Corner (16:08)**
  - 0:04 - Pre-Tensioning
  - 3:26 - Sub-Skeleton
    - 4:41 - Suspending the Weave Off the Tree
    - 5:42 - Setting the Width of Your Strips
  - 7:50 - First Pass
  - 9:43 - Tips on Setting the First Strip
  - 11:02 - Pulling the Sub-Skeleton Off the Tree
  - 11:26 - Setting Strip #2
  - 12:22 - Dressing Your Constrictors
  - 12:40 - First Pass for Strip #2
  - 15:07 - Guestimating the Cross Weave Paracord Length

- **C - Keeping a Consistent Pattern (11:37)**
    - 0:10 - First Pass for Strip #3
    - 1:07 - Pre-Tensioning Before the First Pass
        - 2:04 - Untying Knots With the Spike Tool
    - 6:07 - Incorporating Weaving Mistakes
    - 7:20 - Sliding Hitches to Adjust Positioning
    - 8:19 - Sub-Skeleton and First Pass with a Single Paracord
    - 9:30 - Preventing Hitches from Slipping Out of Place
        - 9:49 - How to Tie the Rolling Hitch
        - 11:02 - Changing the Direction of Strips

- **D - Tricks to Even Out Your First Pass (4:49)**
    - 0:11 - How I'm Weaving This Triangle Section
    - 0:37 - What Does an Uneven First Pass Look Like?
    - 0:51 - Rolling the Hitch
    - 1:53 - Pulling Slack Out of the System
    - 3:31 - Tying a Clove Hitch for Easy Adjustments

- **E - Starting the Cross Weave (9:05)**
    - 0:24 - Checkerboard vs Grid Pattern
    - 0:49 - First Strip Against the Tree
    - 2:41 - Weaving With the First Pass Paracord
    - 3:00 - Awkward Angles Off the Perimeter
    - 3:34 - Deviating from the Pattern
    - 4:40 - Tying on a New Line
    - 5:24 - Under Estimating the Length of Paracord
    - 6:11 - Shifting the Pattern Around
    - 6:26 - Upside Down Constrictors
    - 7:30 - Weaving Around a Previous Mistake
    - 7:52 - Forming a Zig Zag With Your Houses

- **F - Timelapse Commentary (15:03)**
    - 0:26 - Tying the Pre-Tension Line Deeper in the Weave
    - 0:51 - Changing the Orientation of the Weave
    - 1:50 - Stacking up Curved Strips
    - 2:13 - Getting Creative with the Cross Weave
    - 6:24 - Starting the Cross Weave Off the Sub-Skeleton
    - 7:04 - Another Trick for Spacing Out the Cross Weave
    - 7:30 - Another Way to Splice in New Paracord
    - 8:25 - Working With a Funky Taper
    - 10:10 - A Thicker Strip for the Checkerboard Pattern
    - 10:54 - Explaining the Bridge Construction in the Background
    - 11:35 - Checkerboard Pattern Hijinks

- 12:03 - Passing into the Chaos Pattern
- 12:27 - Ending the Cross Weave Early
- 12:39 - Adjusting the Pattern Spacing
- 12:53 - Filling in the Last "Pizza" Section
- 13:10 - Zig Zag Skeleton Frame
- 14:14 - Fixing a Mistake with the Cross Weave
- 14:30 - Chaos Pattern Preview

- **G - Slow Mo Commentary (7:49)**
  - 0:11 - Wrapping the Bight
  - 1:09 - 3 Ways to Pull Paracord Through a Wrap or Hitch
  - 1:22 - Normal Pull
    - 1:52 - Punching Trees
  - 2:02 - Split Pull
  - 2:38 - Slide Pull
  - 3:06 - Using Pulls Interchangeably
  - 3:57 - A Fun Image in my Head While Weaving
  - 4:20 - Tension Arcs
  - 5:19 - Flipping the Window
  - 6:17 - 4 Moves in a Single Hitch

- **H - Upside Down Constrictors (4:18)**
  - 0:08 - Medium Difficulty Constrictor
  - 2:09 - Hard Difficulty Constrictor

In this module, I'll introduce the chaos pattern on the white board then we'll head outside to see it in action where you'll get the opportunity to sit on my shoulder as I weave away, noting a variety of situations that might come up with this pattern. Finally, I'll include a timelapse commentary section where I'll discuss what goes through my mind while weaving and also discuss some more broader concepts.

- **A - Overview Pt 1 (9:28)**
  - 0:19 - A Spectrum of Weaving Patterns
  - 1:30 - Where I Like to Use Chaos
  - 1:47 - 3 Principles for Weaving Chaos
    - 2:12 - #1
    - 2:30 - #2
    - 3:55 - #3
  - 7:24 - Keeping an Even Pattern

- **B - Overview Pt 2 (4:02)**
  - 0:15 - Subdivisions and Chaos Pattern
    - 0:27 - Skeleton Frame
    - 0:44 - Sub-Skeleton
    - 1:14 - First Pass
    - 2:05 - Tendrils

- **C - Weaving the Sub-Skeleton (4:13)**
  - 0:29 - Winding Up a Double Paracord Needle
  - 0:54 - 2 Options for Double Paracord Constrictor
  - 1:52 - Starting the Sub-Skeleton
  - 2:38 - Double Wide Upside Down Constrictor

- **D - Weaving the First Pass (8:39)**
    - 0:00 - Planning the Order We Weave Our Patches
    - 0:26 - Different Sized Netting Needles
    - 0:43 - Bouncing Off at Right Angles
    - 1:35 - Wrapping With "The Grain"
    - 3:26 - Feeling Out the First Pass
    - 5:09 - Avoiding Slipping Hitches
    - 5:27 - Shifting the Paracord Around
    - 6:20 - Ditching the Netting Needle
    - 7:12 - Terminating on Sub-Skeleton vs Perimeter
    - 7:51 - Stars and Ys in the Chaos Pattern

- **E - Weaving the Tendrils (13:18)**
    - 0:06 - Connecting Patches
    - 0:37 - Starting the Tendrils
    - 1:10 - The Fluid Form of the Chaos Pattern
    - 1:44 - Passing into the Neighboring Patch
    - 2:10 - Returning to the Original Patch
    - 2:29 - Preserving Nice Shapes in Your Weave
    - 3:15 - Ergonomics While Weaving
    - 4:34 - Shifting the Weave Around for Your Tendrils
    - 5:04 - Protecting Your Wrist While Weaving
    - 5:36 - Picking a Line Through the Weave
    - 6:15 - Testing Out Ideas While Weaving
    - 7:58 - Avoiding Gaps from Big Rings
    - 8:29 - Weaving Over the Same Spot Twice
    - 9:13 - The Puzzle of Weaving Chaos
    - 10:03 - Avoiding Discernable Patterns
    - 11:16 - Pinching Patterns into Tension
    - 11:51 - Pulling Slack Out of a Loose Sub-Skeleton

- **F - Timelapse Commentary (7:42)**
    - 0:03 - Why I Wove This Section First
    - 0:55 - Weaving the Sub-Skeleton
    - 1:45 - Weaving from Patch to Patch
    - 2:31 - Accidentally Making a Patch Too Skinny
    - 3:41 - Cutting Up Gaps in the Weave
    - 4:00 - Leaving Holes For Weaving Access
    - 4:39 - Filling in the Hole
    - 5:36 - Evening Out the Weave

In this module, we will learn how to weave rings and portals into your nets so you can climb up and into your creations. We'll also cover how to splice in a ring into an existing weave and how to cleanly finish your loose rope ends.

- **A - Overview (7:43)**
  - 0:18 - Setting Up Our Diagram
  - 1:28 - Subdividing Around the Accessories
  - 2:21 - Positioning the Rings
  - 3:24 - Weaving the Rings in Place
  - 5:59 - Tying the Portal
  - 6:40 - Weaving the Portal into Shape

- **B - Tying the Rings and Using a Hot Knife (10:17)**
  - 0:27 - How Long to Cut the Rope
  - 0:51 - Tying the Double Fisherman's Bend
  - 3:39 - Adjusting the Size of the Ring
  - 5:18 - Cutting the Tails with a Hot Knife
  - 7:44 - Cleaning up the Wispy Bits
  - 8:02 - Alternative Technique with a Box Cutter

- **C - Framing & Weaving the Rings and Portals (14:10)**
  - 0:28 - Tying the Portal
  - 1:19 - Setting the Size of the Portal
  - 2:16 - Framing Up the Portal with Pre-Tension Lines
  - 4:13 - Tying the Sub-Skeleton Around the Portal
  - 5:16 - Anticipating the Placement of the Rings
  - 6:09 - Repositioning Our Pre-Tension Lines
  - 6:28 - Weaving Chaos Before Mounting the Rings
  - 6:46 - Positioning the Ring
  - 9:24 - Weaving in the First Pass

- 9:49 - Preserving the Shape of the Sub-Skeleton
- 10:23 - Giving Some Wiggle Room Around the Ring
- 10:56 - Weaving Around the Double Fisherman's Bend
- 11:57 - Removing the Pre-Tension as the Ring Gets Pulled Tight
- 12:17 - Backing Up the Double Fisherman with a Hitch
- 13:03 - Coming Full Circle On Our Ring

- **D - Two Types of Portals (11:24)**
  - 0:15 - Shaping the Portal with the First Pass
  - 2:11 - Standalone Portal Fused to the Perimeter
  - 2:43 - Fused Entrance Portal Example
  - 3:18 - Tying The Portal as One Big Ring
  - 4:02 - Pre-Wrapping One Side Onto the Perimeter
  - 4:28 - Starting the First Pass in an Adjacent Patch
  - 4:48 - Shaping the Fused Portal
  - 6:37 - Gently Releasing Tension from an Overly Tight Hitch
  - 7:11 - Approaching the Edge of the Fused Portal
  - 8:27 - Wrapping the Fused Portal
  - 9:16 - Running Out of Paracord Mid-Wrap
  - 10:37 - Ending the Wrap and Continuing into the Fill

- **E - Splicing in Rings After the Fact (9:17)**
  - 0:09 - Why Splice in Rings?
  - 1:30 - Positioning the Ring
  - 2:09 - Cutting Into Our Net
  - 3:31 - Looking for Hitches to Turn Into Constrictors
  - 4:14 - Unravelling Lines to the Nearest Hitch
  - 5:09 - Salvaging Old Paracord
  - 5:43 - Strategically Untying Cow Hitches
  - 6:30 - Re-Weaving Old Paracord
  - 7:19 - Pulling a Loose Section Back into Shape
  - 8:15 - Splicing in New Paracord

- **F - Finishing Loose Ends (3:25)**
  - 0:18 - Cutting the Rope with the Hot Knife
  - 0:38 - Wrapping the Tails With Paracord
  - 1:26 - Integrating the Wraps with the Fill
  - 2:24 - Dressing the Upside Down Constrictor
  - 2:50 - Tips for Stronger Constrictors with the Hot Knife

In this module, we will cut down our demo net to showcase what would happen if any part of your net were to snap. We'll start with a single piece of paracord, then the double paracord, then the skeleton frame and finally the perimeter.

- 0:49 - Cutting the Fill
- 1:34 - Cutting the Sub-Skeleton
- 1:49 - Wraps Holding Tension
- 2:21 - Cutting the Skeleton Frame
- 3:02 - Cutting the Perimeter
- 3:53 - What to Do If the Fill is Cut
- 4:40 - What to Do If the Perimeter is Cut
- 4:57 - How to Cause a Catastrophic Failure
- 5:12 - Doubling the Perimeter

In this module, I'll weave a brand new net and time the whole thing from start to finish so you can see exactly how long and how much rope/paracord it uses. You'll also get the opportunity to see an unedited timelapse of a net being woven from scratch.

- 0:00 - Weaving the Floor
- 6:57 - Weaving the Side Walls
- 8:43 - Time Trial Net Complete!
- 9:14 - How Long Did it Take?
- 9:57 - How Much Paracord/Rope?

The course is complete! If you have any questions or comments, feel free to shoot me an email at canopycraftstudio@gmail.com or DM me on Instagram/TikTok.

- 0:08 - How to Reach Me
- 0:15 - In Person Workshops
- 0:24 - Professional Tree Net Installations

Thank you so much for listening!