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The Science of Woodturning: Form, Function, & Figure with Seri Robinson July 8-12, 2019

NOTE: The \$250.00 material and supply fee is payable to Seri when you are here for class. Checks are to be given to Seri and made payable to "Agricultural Research Foundation."

Tool List

- Finkat sandpaper (80 grit through 600 grit)
- Any brand hook-and-loop disc holders (like this one: <https://www.woodturnerscatalog.com/p/32/4418/Apprentice-Hook-and-Loop-Disc-Holder>) - only get the two inch size
- 2" hook and loop sandpaper, 80 grit through 600 grit
- Hand drill and screwdriver bits
- Variety pack of wood screws (vary in both thickness and length, about ten of each type)
- 2" soft backing pad (get two, of any brand, but here is a suggestion): <https://www.woodturnerscatalog.com/p/32/5067/Apprentice-Hook-and-Loop-Backing-Pad-2%22>

For the lathe tools, it is very important you get EXACTLY what is listed below, as we will be going over specific grinds

- 3/8 and 1/2" TRADITIONAL bowl gouge (NO fingernail profile) (note: if you wish to try the grind I use for this tool, bring an EXTRA 3/8" traditional bowl gouge and I will grind it for you)
- Any size fingernail bowl gouge
- Small and large skew (flexible on which two sizes, and you can choose oval or standard)
- Spindle roughing gouge (any size)
- Parting tool (any, and it can be an old, beat up one)
- Round nose scraper 1/2" (you may bring a 3/4" as well if you desire, but not required), AND/OR any of your favorite scrapers
- Safety glasses and a full face shield rated Z87+ (the school has these to purchase as well)
- Sharpie marker
- Two sturdy pencils
- Loupe (hand lens) (10x or higher)

- Camera with macro setting (the little flower icon). A cell phone will work fine. Small point and shoot cameras are the best.

Students are welcomed and encouraged to bring any wood from home that they find unusual, want IDed, or want help with turning. These make for great class demos and examples!

- A turning blank (spindle or bowl, your choice) of your personal, favorite wood to turn

Schedule

Please note – this class is accessible for all turning levels, including 'never seen a lathe before' to advanced

Day 1:

Morning: Wood biology: how a tree grows, cell types, differences (anatomically) between hardwoods and softwoods, how water effects wood, spalting

Afternoon: turning wet versus turning dry, turning spalted versus turning sound wood

Day 2:

Morning: differences between species in a genus. Wood identification with hand lenses and microscopes

Afternoon: turning within a genus: a study on maple

Day 3:

Morning: Wood biology: how environment and genetics affect grain appearance and form figured woods

Afternoon: turning knots, bark, juvenile wood

Day 4:

Morning: How figure is determined, valued, and named. What figure looks like microscopically versus macroscopically

Afternoon: comparison turning: curly maple vs. quilted maple vs. birdseye maple vs. maple burl (depending upon availability)

Day 5:

All day: turning challenge: given a piece of 'nonstandard' wood, assess the grain direction both microscopically and macroscopically, mount appropriately on the lathe, and turn a functional object appropriate to the size of the wood. All students will have a different turning challenge and are encouraged to help each other with design and assessment