

APPRENTICESHIP WITH MARC ADAMS

May 11-22, 2020

TOOL LIST

I'm very excited about our time together this summer. The following is a list of the hand tools that you should bring to the class. I am pretty sure that I have accounted for every hand tool that you will need, however I would encourage you to bring any extra tool(s) that you feel that you might need. The school has a lot of extra hand tools, but not a lot of extra carving tools. If you don't already own carving tools, I recommend that you get a starter set of 6 to 8 common tools. I recommend Swiss Made available at Woodcraft. This will be two weeks of experimentation and learning many facets of woodworking.

This class will have a material fee of \$125 for the practice materials that will be used during both weeks of class, which will include veneering supplies, carving and joinery boards, and wood to practice sculptural and free form work.

1. Straight bench chisels, at least a set of 6 sizes. The best sizes to use are; 1/8", 1/4", 3/8", 1/2", 3/4", and 1"
2. #474 Sandvik rectangular scraper (or any you have). If you have curved ones bring them. And a Nicholson 6" metal milling file, smooth cut. This will be used to true up the edge of the Sandvik scraper.
3. Sliding "T" bevel, Marking gauge. Tape measure. 12" or 24" metal ruler
4. X-acto #11 knife with extra blades.
5. 4" or 6" square. The metal engineering squares are best.
6. Any carving tools that you have. At least bring the following:
 - Straight tools with bevels on both sides 1/4", and 1/2"
 - Gouges #5-20mm #8-13mm
 - Veiner #11-10mm #7-5mm
 - Parting tools 1/4"-45 degree 3/8"-60 degree
 - Chip carving knife (Per Herman, a Wayne Barton works well, but Lee Ferguson knife is his favorite Model C-1 for approximately \$25- \$30. <http://www.fergusonknives.com/woodcarving-knives>)
7. 12 oz. round wooden mallet, and a hammer.
8. A roll of 3/4" masking tape.
9. 4" right angle grinder--if you have one, the school has 5 of them. It should be variable speed with a hard rubber disk and sanding disks from 24 to 80 grit.
10. Nicholson #49 or #50 cabinet rasp. BRING GLOVES.
11. Fine tooth dovetail saw (preferably a Japanese saw)
12. Pencils and erasers, and a large sketch pad. Any drafting supplies you have
13. An engineer's protractor, the metal type by GENERAL or the equal
14. Dividers, and a good compass.
15. A Japanese saw rasp, available at the Japan Woodworker.
16. Bring a small trim router with the smallest straight bit you can find
If you have a Dremel tool or Foredom, bring them as well. It would be nice to have the plunge attachment for using either tool like a plunge router.
17. Safety equipment: safety glasses, ear plugs, dust masks.
18. Self-healing cutting mat

THE FIRST WEEK----THE PRACTICE WEEK

Monday – Wednesday morning, Joinery

1. Orientation, review the objectives, introductions
2. Alternatives to belt sander sharpening
3. Review the process of joinery and tool preparedness
 - Cut dovetails by hand including curved dovetails
 - Cut through, and lap Mortise and tenons for sculpture
 - Cut special decorative joints
 - Cut both angled and compound dovetails
 - Cut mitered mortise and tenon joints
 - Make a hip joint that will be used in sculptural work
4. *Prepare a corner lapping joint

Wednesday to Thursday, Veneering

1. Discuss veneer, how it's cut, adhesives, cores
 - Tour of the Veneer mill
2. Practice cutting veneer
 - Cut different matches, butt, diamond, quartered
 - Cut parquet patterns
 - Cut radial matches
3. Sand shading, flattening
4. Veneering on irregular surfaces
5. How to veneer on edges
 - *Veneer a wall image with curved edges and parquetry
6. Press veneer panels
 - Core boards
 - Glues
 - Pressing

Thursday Evening, Chip Carving with Herman

1. Start chip carving demonstration with Herman
 - Approx. time: 3:00pm to 6:30pm

Friday, Carving

1. Starting in clay, how to work with it, and preserve it
2. Tool sharpening, how to hold the tools
3. Working the grain
 - Carve a shell
4. How to make create lines, both hard and soft

THE SECOND WEEK----THE PRACTICE WEEK CONTINUES

Monday, Carving & Shaping Continues

1. Creating lines
Sculpt a union of two or three pieces of wood to flow
Create a twist
2. Using power grinders
3. Learn to sculpt a cabriole leg and define the lines

Monday after lunch to Tuesday, The Digital World with Mark Sterner

1. Learn about using CNC's
Layout and make cuts
Experiment on both the software and router
Make a tool tote
If there is interest, Mark will work individually with people
2. Using a laser to make unbelievable engravings
How to cut veneer
How to make repeatable templates

Tuesday Afternoon to Wednesday, Inlay and Bending

1. Learn how to inlay accurately in wood
Both straight lines and curved lines—any size
2. Inlay techniques including stone and precious metal
How to use a stone cutting saw and metal bandsaw
3. Discussion of how to bend wood
Stack laminations
Building the form
What glues to use
Brick laying technique
Steam Bending
How to generate heat
Compression bending
Kerf Cut bending
4. Decorative work such as sgraffito
Burning the surface

Wednesday Afternoon, Distressing and Fuming Wood with Doug Dale

1. Learn what woods fume and distress the best
2. Learn about metal patination
Make samples
3. Make a safe ammonia tent and place materials to set overnight

Wednesday to Thursday Afternoon, Working with Epoxy with Mark Hedin

1. Introduction to Epoxy
2. Surface Infusion
3. Casting a panel
 Make a decorative tissue and epoxy panel

Thursday afternoon, Router Jigs and Fixtures

1. Circle and elliptical fixtures
2. Fluted jambs
3. How to make unique turnings with a router

Friday the Design day

1. Doodle
2. Learn about the 6 factors of embellishment
 Learn about the 6 ways to affect form
3. The importance of templates and drawings
 Make cardboard full scale mock-ups
4. Make full scale drawings and patterns

Friday afternoon, Finishing techniques

1. Learn the difference in oils and pigments
2. Film finishes
 Oils or anything containing wax or oils
 Varnishes
 Shellacs
 Lacquers
 Conversion finishes
 Water based finishes
3. Marc will discuss the way he finishes his furniture